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*/
/**
* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])]
* version.
*
* @param mv
* the <code>MethodVisitor</code> to send the resulting inlined
* method code to (use `<code>null</code>` for none).
* @param access
* the method’s access flags (see [link Opcodes]). This
* parameter also indicates if the method is synthetic and/or
* deprecated.
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [link Type]).
* @param signature
* the method's signature. May be `<tt>null</tt>`.
* @param exceptions
* the internal names of the method's exception classes (see
* [link Type#getInternalName() getInternalName]). May be
* `<tt>null</tt>`.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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/**
* Creates a new [*link GeneratorAdapter*]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* [*link #GeneratorAdapter(int, MethodVisitor, int, String, String)*]
* version.
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see [*link Opcodes*]).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see [@link Type Type]).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/GeneratorAdapter.java
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 */
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link #Textifier(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */
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 */
/**
 * Constructs a new [ClassNode]. * Subclasses must not use this
 * constructor. Instead, they must use the [ClassNode(int)]
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

/**
 * Found in path(s):
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/**
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 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java
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 */

/**
 */
*/
/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 * 
 * @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the fist instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 */
the local variable's index in each range. This array must have
the same size as the 'start' array.
* @param desc
* the class descriptor of the annotation class.
*/

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*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifiable.java

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*/
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* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this
* constructor. Instead, they must use the
* \{@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)\}
* version.
*
* @param owner
*      the owner's class name.
* @param access
*      the method's access flags (see \{@link Opcodes\}).
* @param name
*      the method's name.
* @param desc
*      the method's descriptor (see \{@link Type Type\}).
* @param mv
*      the method visitor to which this adapter delegates calls. May
*      be &lt;tt>null</tt&gt;.
* @throws IllegalStateException
*      If a subclass calls this constructor.
*/

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* jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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1.4 spring-orm 4.3.7.RELEASE

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* Create a transactional EntityManager proxy for the given EntityManagerFactory.
* @param emf EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the
*   [{@code createEntityManager} call (may be {@code null})
* @param entityManagerInterfaces the interfaces to be implemented by the
*   EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transactional EntityManager proxy
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jar/org/springframework/orm/jdo/PersistenceManagerHolder.java
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jar/org/springframework/orm/jdo/PersistenceManagerHolder.java
* /opt/cola/permits/1136415974_1613765439.48/0/spring-orm-4-3-7-release-sources-3-

1.5 Jackson 2.12.6

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Version 2, June 1991

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(1)

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(2)

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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1.12 python-certifi 2020.12.5

1.12.1 Available under license:
This package contains a modified version of ca-bundle.crt:

cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRC/Source: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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jar/org/springframework/web/portlet/mvc/EventAwareController.java
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jar/org/springframework/web/portlet/handler/SimplePortletHandlerAdapter.java
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1.16 jackson 2.10.5

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### 1.17 asm 2.2.0

### 1.18 jctools-core 3.0.0

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</plugin>

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

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/SpscLinkedQueue.java
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* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/package-info.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/util/RangeUtil.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/util/PortableJvmInfo.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/QueueFactory.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscCompoundQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-jar/org/jctools/queues/MpscUnboundedXaddChunk.java
* /opt/cola/permits/1257637630_1642977964.98/0/jctools-core-3-0-0-sources-
1.19 jetty-security 9.4.11.v20180605
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//Equivalent to //<user-data-constraint><transport-guarantee>CONFIDENTIAL</transport-guarantee></user-data-constraint>

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* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources-jar/org/eclipse/jetty/security/authentication/ClientCertAuthenticator.java
* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources-jar/org/eclipse/jetty/security/SpnegoUserPrincipal.java
* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources-jar/org/eclipse/jetty/security/UserStore.java
* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources-jar/org/eclipse/jetty/security/DefaultAuthenticatorFactory.java
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jar/org/eclipse/jetty/security/authentication/LoginCallback.java
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* /opt/cola/permits/1258904082_1643121235.0/0/jetty-security-9-4-11-v20180605-sources-jar/org/eclipse/jetty/security/DefaultIdentityService.java
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1.20 netty-transport 4.1.72.Final

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  jar/io/netty/channel/EventLoopTaskQueueFactory.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>
 *
 * { [@link Channel_handler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * *
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>

* <li> {@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li> {@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li> {@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <h3>The context object</h3>
* 
* 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:
* 
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler<Message>} {
*     
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             loggedIn = true;
*         } else if (message instanceof GetDataMessage) {
*             if (loggedIn) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* 
* 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 a 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>&gt; {
*     @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>&gt; auth =
*         AttributeKey.valueOf("auth").AttributeKey.valueOf("auth");
*
*     @code @Override
*     public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             ctx.attr(true);
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 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:

```java
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>

The {@code @Sharable} annotation

In the example above which used an `{@link AttributeKey}`, you might have noticed the `{@code @Sharable}` annotation.

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.

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.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

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.

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jar/io/netty/channel/AbstractEventLoop.java
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jar/io/netty/channel/embedded/EmbeddedChannelId.java
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jar/io/netty/channel/PendingWriteQueue.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
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jar/io/netty/channel/socket/DuplexChannel.java
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jar/io/netty/channel/pool/ChannelPool.java
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  jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/ChannelInboundHandler.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/bootstrap/ChannelFactory.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java

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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java

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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
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  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
  jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-
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  jar/io/netty/channel/embedded/package-info.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelFuture.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
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* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/group/package-info.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/EventLoopException.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/AbstractChannel.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1248311120_1640375926.85/0/netty-transport-4-1-72-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
1.21 jackson-databind 2.10.0

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# Jackson JSON processor

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1.22 javassist 3.18.1-GA

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* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtNewWrappedConstructor.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Stmnt.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/expr/Expr.java
/*
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Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/tools/reflect/Loader.java
1.23 postgre-sql 42.2.18

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1.27 dom4j 2.1.1

1.28 commons-codec 1.15

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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
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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.

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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 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 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 (Internet address 192.48.96.9). The most recent released version can always be found there in directory 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 for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only 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 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/.

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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 PBMPLUS 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 PBMPLUS/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
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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.

1.35 hibernate-commons-annotations
5.1.0.Final
1.35.1 Available under license:

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Version 2.1, February 1999

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package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.CacheConfiguration;
import net.sf.ehcache.store.compound.ReadWriteCopyStrategy;
/**
 * Copies elements, either on read, write or both before using the underlying store to actually store things
 * When copying both ways, the store might not see the same types being stored
 * @param <T> the store type it wraps
 *
 * @author Alex Snaps
 */
public final class CopyingCacheStore<T extends Store> extends AbstractCopyingCacheStore<T> {

/**
 * Creates a copying instance of store, that wraps the actual storage
 *
 * @param store the real store
 * @param copyOnRead whether to copy on reads
 * @param copyOnWrite whether to copy on writes
 * @param copyStrategyInstance the copy strategy to use on every copy operation
 * @param loader classloader of the containing cache
 */
public CopyingCacheStore(T store, boolean copyOnRead, boolean copyOnWrite, ReadWriteCopyStrategy<Element> copyStrategyInstance, ClassLoader loader) {
    super(store, copyOnRead, copyOnWrite, copyStrategyInstance, loader);
}

/**
 * Wraps the Store instance passed in, should any copy occur
 *
 * @param cacheStore the store
 * @param cacheConfiguration the cache config for that store
 * @return the wrapped Store if copying is required, or the Store instance passed in
 */
public static Store wrapIfCopy(final Store cacheStore, final CacheConfiguration cacheConfiguration) {
    if (requiresCopy(cacheConfiguration)) {
        return wrap(cacheStore, cacheConfiguration);
    }
    return cacheStore;
}

/**
 * Wraps (always) with the proper configured CopyingCacheStore
 *
 * @param cacheStore the store to wrap
 * @param cacheConfiguration the cache config backed by this store
 * @param <T> the Store type
 * @return the wrapped store
 */
private static <T extends Store> CopyingCacheStore<T> wrap(final T cacheStore, final CacheConfiguration cacheConfiguration) {
    final ReadWriteCopyStrategy<Element> copyStrategyInstance =

cacheConfiguration.getCopyStrategyConfiguration()
    .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
    return new CopyingCacheStore<T>(cacheStore, cacheConfiguration.isCopyOnRead(),
    cacheConfiguration.isCopyOnWrite(), copyStrategyInstance, cacheConfiguration.getClassLoader());
}

/**
 * Checks whether configuration enables copying
 *
 * @param cacheConfiguration the cache config
 * @return true is copying is required, otherwise false
 */
static boolean requiresCopy(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() || cacheConfiguration.isCopyOnWrite();
}

private static boolean isCopyOnReadAndCopyOnWrite(final CacheConfiguration cacheConfiguration) {
    return cacheConfiguration.isCopyOnRead() && cacheConfiguration.isCopyOnWrite();
}

/**
 * Wraps the given {@link net.sf.ehcache.store.ElementValueComparator} if the configuration requires copy on read
 *
 * @param comparator the comparator to wrap
 * @param cacheConfiguration the cache configuration
 * @return the comparator passed if no copy needed, a wrapped comparator otherwise
 */
public static ElementValueComparator wrapIfCopy(final ElementValueComparator comparator, final CacheConfiguration cacheConfiguration) {
    if (isCopyOnReadAndCopyOnWrite(cacheConfiguration)) {
        final ReadWriteCopyStrategy<Element> copyStrategyInstance =
        cacheConfiguration.getCopyStrategyConfiguration()
            .getCopyStrategyInstance(cacheConfiguration.getClassLoader());
        CopyStrategyHandler copyStrategyHandler = new CopyStrategyHandler(cacheConfiguration.isCopyOnRead(),
                cacheConfiguration.isCopyOnWrite(),
                copyStrategyInstance, cacheConfiguration.getClassLoader());
        return new CopyingElementValueComparator(comparator, copyStrategyHandler);
    }
    return comparator;
}

/**
 * An {@link net.sf.ehcache.store.ElementValueComparator} which handles copy on read
 */
private static class CopyingElementValueComparator implements ElementValueComparator {
private final ElementValueComparator delegate;
private final CopyStrategyHandler copyStrategyHandler;

public CopyingElementValueComparator(ElementValueComparator delegate, CopyStrategyHandler copyStrategyHandler) {
    this.delegate = delegate;
    this.copyStrategyHandler = copyStrategyHandler;
}

@Override
public boolean equals(Element e1, Element e2) {
    return delegate.equals(copyStrategyHandler.copyElementForReadIfNeeded(e1),
    copyStrategyHandler.copyElementForReadIfNeeded(e2));
}

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 */

package net.sf.ehcache.store;

import net.sf.ehcache.Element;
import net.sf.ehcache.config.Searchable;

import java.util.Iterator;

/**
 * A {@link BruteForceSource} that wraps another one and deals with copy for read of {@link Element}s.
 *
 * @author ljacomet
 */
class CopyingBruteForceSource implements BruteForceSource {

    private final BruteForceSource delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    private final ElementValueComparator delegate;
    private final CopyStrategyHandler copyStrategyHandler;

    public CopyingElementValueComparator(ElementValueComparator delegate, CopyStrategyHandler copyStrategyHandler) {
        this.delegate = delegate;
        this.copyStrategyHandler = copyStrategyHandler;
    }

    @Override
    public boolean equals(Element e1, Element e2) {
        return delegate.equals(copyStrategyHandler.copyElementForReadIfNeeded(e1),
        copyStrategyHandler.copyElementForReadIfNeeded(e2));
    }

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     */

    package net.sf.ehcache.store;

    import net.sf.ehcache.Element;
    import net.sf.ehcache.config.Searchable;

    import java.util.Iterator;

    /**
     * A {@link BruteForceSource} that wraps another one and deals with copy for read of {@link Element}s.
     *
     * @author ljacomet
     */
    class CopyingBruteForceSource implements BruteForceSource {

        private final BruteForceSource delegate;
        private final CopyStrategyHandler copyStrategyHandler;
* Construct this CopyingBruteForceSource with the given delegate and the [@link CopyStrategyHandler] to use.
* 
* @param delegate the delegate BruteForceSource
* @param copyStrategyHandler the copy strategy handler
*/
CopyingBruteForceSource(BruteForceSource delegate, CopyStrategyHandler copyStrategyHandler) {
  this.delegate = delegate;
  this.copyStrategyHandler = copyStrategyHandler;
}

@Override
public Iterable<Element> elements() {
  return new CopyingIterable(delegate.elements(), copyStrategyHandler);
}

@Override
public Searchable getSearchable() {
  return delegate.getSearchable();
}

@Override
public Element transformForIndexing(Element element) {
  return copyStrategyHandler.copyElementForReadIfNeeded(element);
}

/**
 * Wrapping Iterable holding the delegate Iterable and the [@link CopyStrategyHandler]
 */
private static class CopyingIterable implements Iterable<Element> {
  private final Iterable<Element> elements;
  private final CopyStrategyHandler copyStrategyHandler;

  public CopyingIterable(Iterable<Element> elements, CopyStrategyHandler copyStrategyHandler) {
    this.elements = elements;
    this.copyStrategyHandler = copyStrategyHandler;
  }

  @Override
  public Iterator<Element> iterator() {
    return new CopyingIterator(elements.iterator());
  }

  /**
   * Wrapping Iterator responsible of doing the copy on read
   */
  private class CopyingIterator implements Iterator<Element> {

  }
private final Iterator<Element> delegate;

public CopyingIterator(Iterator<Element> delegate) {
    this.delegate = delegate;
}

@Override
public boolean hasNext() {
    return delegate.hasNext();
}

@Override
public Element next() {
    return copyStrategyHandler.copyElementForReadIfNeeded(delegate.next());
}

@Override
public void remove() {
    delegate.remove();
}


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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &amp;
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &amp;
 * 2=DC_CONFIDENTIAL
 */

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/**
 * Utf8 Appendable abstract base class
 * 
 * This abstract class wraps a standard {@link java.lang.Appendable} and provides methods to append UTF-8
 * encoded bytes, that are converted into characters.
 * 
 * This class is stateful and up to 4 calls to {@link #append(byte)} may be needed before state a character is
 * appended to the string buffer.
 * 
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was
 * inspired by
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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAnyElement.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAnyAttribute.java

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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/ValidationEventHandler.java
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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/ParseConversionEvent.java
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* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/AddressResolver.java
* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/CompositeNameResolver.java
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* /opt/cola/permits/1302203761_1649325943.29/0/netty-resolver-4-1-74-final-sources-1-jar/io/netty/resolver/ResolvedAddressTypes.java
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1.49 spring-security-core 3.0.0.RELEASE
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 * A token issued by {@link TokenService}.
 * 
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 * 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.
 * 
 * @author Ben Alex
 * @since 2.0.1
 */

Found in path(s):
** @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
* @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
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jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java

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 *
* $Id: adaptertest

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jar/org/springframework/security/adapters/adaptertest-invalid.xml
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-
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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. Often used in conjunction with an <code>AfterInvocationManager</code> to obtain the access control list applicable for the domain object instance.

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.
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* @author Ben Alex
* @version $Id: AfterInvocationManager.java 3927 2009-10-06 19:46:44Z ltaylor $ *

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* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/access/intercept/AfterInvocationManager.java
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* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/authentication/CredentialsExpiredException.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/authentication/BadCredentialsException.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/access/dao/ReflectionSaltSource.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/access/dao/SystemWideSaltSource.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/access/vote/AbstractAccessDecisionManager.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources-jar/org/springframework/security/access/intercept/RunAsManagerImpl.java
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* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources.jar/org/springframework/security/remoting/dns/DnsEntryNotFoundException.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources.jar/org/springframework/security/remoting/dns/DnsLookupException.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources.jar/org/springframework/security/remoting/dns/JndiDnsResolver.java
* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources.jar/org/springframework/security/remoting/dns/DnsResolver.java

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 */
/**
 * Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.
 *
 * @author Alan Stewart
 */

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* /opt/ws_local/PERMITS_SQL/1075451150_1596132111.62/0/spring-security-core-3-0-0-release-sources.jar/org/springframework/security/authentication/encoding/Md4.java

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*
* $Id: acegisecurity.xml 3558 2009

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jar/org/springframework/security/adapters/acegisecurity.xml

1.50 python-certifi 2020.11.08
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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1.51 httpcore-nio 4.4.13
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1.52 jackson-dataformat-yaml 2.13.2

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1.57 javax-inject 1

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  jar/io.netty.handler.codec/socksx/v5/Socks5ClientEncoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/AbstractSocks5Message.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/package-info.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/Socks5ServerEncoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/package-info.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/Socks5InitialRequestDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-
  jar/io.netty.handler.codec/socksx/v5/Socks5ClientEncoder.java
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* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /opt/cola/permits/1301917005_1649305369.75/0/netty-codec-socks-4-1-75-final-sources-1-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
1.59 annotations 1.3.2

1.60 stringprep 1.1

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

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

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

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

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zip/lombok/installer/eclipse/MyEclipseLocationProvider.java
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zip/lombok/installer/eclipse/EclipseProductDescriptor.java

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info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/apt/package-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/delombok/DelombokApp.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/AccessLevel.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/package-info.java
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zip/lombok/eclipse/EclipseASTAdapter.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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  zip/lombok/bytecode/ClassFileMetaData.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/InterceptingJavaFileManager.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
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  zip/lombok/var.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/java7/CommentCollectingScannerFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/java8/CommentCollectingScannerFactory.java
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  zip/lombok/javac/handlers/HandleFieldDefaults.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/EclipseImportList.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/configuration/ConfigurationResolver.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/Javac6BasedLombokOptions.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/debug/FileLog.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/configuration/TypeName.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/java8/CommentCollectingTokenizer.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/ImportList.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/configuration/ConfigurationValueParser.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/JavaIdentifiers.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/LombokOptionsFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/JavacTreeMaker.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/LombokImmutableList.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/configuration/ConfigurationValueParser.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/JavaIdentifiers.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/FormatPreferenceScanner.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/DelombokResult.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/NonNull.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/EclipseAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/AnnotationValues.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/LombokNode.java

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zip/lombok/eclipse/agent/PatchExtensionMethodCompletionProposalPortal.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/bytecode/PoolConstantsApp.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/PublicApiCreatorApp.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/eclipse/agent/PatchDelegatePortal.java
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  zip/lombok/javac/Javac9BasedLombokOptions.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/packageName.java

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  zip/lombok/extern/slf4j/XSlf4j.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/experimental/Wither.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/experimental/ExtensionMethod.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/Value.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/experimental/FieldDefaults.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/experimental/Accessors.java

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  zip/lombok/Builder.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/Javac8BasedLombokOptions.java
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  zip/lombok/ConfigurationKeys.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/handlers/HandleHelper.java

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  zip/lombok/CompilerMessageMatcher.java
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  zip/lombok/javac/CapturingDiagnosticListener.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/singualars/EclipseGuavaMapSingularizer.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/singualars/JavacJavaUtilSetSingularizer.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/RequiredArgsConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Delegate.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/AllArgsConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/extern/apachecommons/CommonsLog.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/java/Log.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/HandleConstructor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/extern/apachecommons/commonsLog.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/javac/JavacAugments.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/launch/Agent.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/StringConfigurationSource.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/ConfigurationProblemReporter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/ConfigurationApp.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/ConfigurationKeysLoader.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/ConfigurationSource.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/FlagUsageType.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/NullCheckExceptionType.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/debug/ProblemReporter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/ConfigurationResolverFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/experimental/Tolerate.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
zip/lombok/core/configuration/FlagUsageType.java
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  zip/lombok/eclipse/handlers/SetGeneratedByVisitor.java
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zip/lombok/javac/LombokOptions.java

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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/core/runtimeDependencies/CreateLombokRuntimeApp.java

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  zip/lombok/javac/java7/CommentCollectingParserFactory.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/LombokConfiguration.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/HandleNonNull.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/java8/CommentCollectingParser.java
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  zip/lombok/core/configuration/ConfigurationKey.java
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  zip/lombok/javac/java7/CommentCollectingParser.java
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  zip/lombok/core/DiagnosticsReceiver.java
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  zip/lombok/installer/UninstallException.java
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  zip/lombok/javac/apt/MessagerDiagnosticsReceiver.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-izip/lombok/eclipse/EclipseNode.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-izip/lombok/javac/JavacAnnotationHandler.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/handlers/HandleGetter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Synchronized.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/installer/eclipse/EclipseProductLocation.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/eclipse/handlers/HandleSetter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/JavacAST.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/InstallerGUI.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Setter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/javac/handlers/HandleSetter.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/experimental/package-info.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/delombok/Delombok.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-zip/lombok/Cleanup.java
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* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources- zip/lombok/installer/eclipse/RhdsLocationProvider.java

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  zip/lombok/core/LombokInternalAliasing.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/handlers/HandlerUtil.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/HandleBuilder.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/eclipse/handlers/HandleBuilder.java

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  zip/lombok/DirectoryRunner.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/transform/TestWithDelombok.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/transform/TestSourceFiles.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/TypeLibrary.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/TypeLibrary.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/core/TypeLibrary.java
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  zip/lombok/EqualsAndHashCode.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/apt/LombokProcessor.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/HandleData.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/javac/handlers/JavaHandlerUtil.java
* /opt/cola/permits/1136828559_1618246426.83/0/449-lombok-1-16-22-sources-
  zip/lombok/delombok/DocCommentIntegrator.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
  jar/net/sf/ehcache/constructs/nonstop/store/NoOpOnTimeoutStore.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
  jar/net/sf/ehcache/statistics/CacheUsageListener.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
  jar/net/sf/ehcache/writer/writebehind/WriteBehind.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
  jar/net/sf/ehcache/constructs/nonstop/ClusterOperationCallable.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
  jar/net/sf/ehcache/transaction/TransactionIDFactory.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
  jar/net/sf/ehcache/exceptionhandler/CacheExceptionHandler.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
  jar/net/sf/ehcache/CacheManager.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/CircularLossyQueue.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/sampled/SampledCache.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/Cache.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/constructs/nonstop/concurrency/NonstopThreadUniqueIdProvider.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/management/NonStopCacheException.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/ccs/EhcacheNonstrictReadWriteCache.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/api/HibernateStats.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/CoalesceKeysFilter.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/writer/writebehind/operations/KeyBasedOperation.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/MemoryStore.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/SlewClock.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/search/aggregator/Sum.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/distribution/EventMessage.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/management/api/EhcacheHibernateMBean.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/terracotta/ClusteredInstanceFactoryWrapper.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/pool/impl/AbstractPool.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/cluster/CacheCluster.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/SetAsList.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/transaction/TransactionIDNotFoundException.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/store/NotifyingMemoryStore.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/util/counter/sampled/SampledCounter.java
* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/strategy/TransactionalEhcacheCollectionRegionAccessStrategy.java
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* /opt/cola/permits/1001060448_1607083203.24/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/hibernate/nonstop/NonstopAccessStrategyFactory.java
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 */

/**
 * Returns a list of all element keys in the cache, whether or not they are expired.
 * <p>
 * The returned keys are unique and can almost be considered a set. See \( \text{@link \text{net.sf.ehcache.store.CacheKeySet\text{CacheKeySet}}} \) for
 * more details.
 * <p>
 * The List returned is not live. It is a copy.
 * <p>
 * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
 * for each 1000 entries.
 * *
 * @return a list of \( \text{@link \text{Object\text{Object}}} \) keys
 * @throws \text{IllegalStateException} if the cache is not \( \text{\text{@link \text{Status\text{Status#STATUS_ALIVE}}}} \)
 * @see \text{\text{net.sf.ehcache.store.CacheKeySet\text{net.sf.ehcache.store.CacheKeySet}}}
 */

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1.75 python 3.9.7-r4
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/timeout/ChunkedStream.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/timeout/ChunkedFile.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/GroupsConverter.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/BouncyCastle.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslContextOption.java
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/AsyncRunnable.java
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-jar/io/netty/handler/traffic/TrafficCounter.java

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* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1301895169_1649303795.24/0/netty-handler-4-1-75-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

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1.87 tim-ehcache-2.x-hibernate-ui 1.9.4
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jar/org/terracotta/modules/hibernatecache/presentation/AggregateH2LCRuntimeStatsPanel.java
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jar/org/terracotta/modules/hibernatecache/presentation/AggregateVuMeterPanel.java
* /opt/cola/permits/1258368296_1643062908.0/0/tim-ehcache-2-x-hibernate-ui-1-9-4-sources-
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1.88 grpc-protobuf-lite 1.9.0

1.89 objenesis 1.2

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* /opt/cola/permits/1302203776_1649325941.87/0/netty-codec-dns-4-1-74-final-sources-1.jar/io/netty/handler/codec/dns/DnsRecordType.java

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1.102 audience-annotations 0.5.0

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1.105 ordered-set 4.0.2

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1.107 perfmark-api 0.25.0
1.107.1 Available under license:
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1.108 ncurses 6.3_p20211120-r0
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-- $Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp $
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1.109 spring-instrument-tomcat

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  jar/org/springframework/instrument/classloading/tomcat/TomcatInstrumentableClassLoader.java
* /opt/cola/permits/1138132204_1614265672.95/0/spring-instrument-tomcat-4-3-7-release-sources-2-
  jar/org/apache/catalina/loader/WebappClassLoader.java

1.110 ca-certificates 20191127-r4

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* /opt/cola/permits/1301895027_1649303978.82/0/netty-all-4-1-75-final-jar/META-INF/maven/io.netty/netty-all/pom.xml
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Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.all
Implementation-Version: 4.1.75.Final
Built-By: norman
Bnd-LastModified: 1646911619441
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/All-in-One
Bundle-Version: 4.1.75.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-all/

Found in path(s):
* /opt/cola/permits/1301895027_1649303978.82/0/netty-all-4-1-75-final-jar/META-INF/MANIFEST.MF

1.112 netty-codec-smtp 4.1.75.Final

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1.113 jackson-jaxrs 2.9.6

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.114 urllib3 1.26.2

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# Contributions to the urllib3 project

## Creator & Maintainer
* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovskiy <boris.figovskiy@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from ```HTTPResponse.stream()````
  * Bugfix for ```ConnectionPool.urlopen(release_conn=False)````
  * Creation of ```HTTPConnectionPool.ResponseCls````

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix `util.selectors._fileobj_to_fd` to accept `"long"`.
* Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urllib2.urlopen().geturl()` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection
* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.115 management-common-v2 2.1.6

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* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1239268354_1643325174.86/0/netty-tcnative-classes-2-0-46-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java

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$Id: IllegalAddException.java,v 1.25 2004/02/06 09:28:30 jhunter Exp $

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$Id: DefaultJDOMFactory.java,v 1.6 2004/09/01 05:25:38 jhunter Exp $

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$Id: XercesDOMAdapter.java,v 1.18 2004/02/06 09:28:31 jhunter Exp $

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$Id: AbstractDOMAdapter.java,v 1.20 2004/02/06 09:28:31 jhunter Exp$

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$Id: Namespace.java,v 1.41 2004/02/27 11:32:57 jhunter Exp $

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$Id: AbstractFilter.java,v 1.5 2004/02/27 11:32:58 jhunter Exp $

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$Id: NegateFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp$

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Verifier.java
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$Id: AndFilter.java,v 1.3 2004/02/06 09:28:31 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/100009892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/filter/AndFilter.java

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$Id: Text.java,v 1.24 2004/02/27 11:32:57 jhunter Exp$

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$Id: JDOMLocator.java,v 1.3 2004/02/06 09:28:32 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/output/JDOMLocator.java
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$Id: DOMBuilder.java,v 1.59 2004/09/03 06:03:41 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/input/DOMBuilder.java
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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Document.java
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$Id: DescendantIterator.java,v 1.5 2004/02/27 11:32:57 jhunter Exp$

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$Id: JDOMException.java,v 1.23 2004/02/27 11:32:57 jhunter Exp $

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$Id: SAXOutputter.java,v 1.37 2004/09/03 06:11:00 jhunter Exp $

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$Id: SAXHandler.java,v 1.68 2004/08/31 06:14:05 jhunter Exp $

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$Id: CDATA.java,v 1.30 2004/02/27 11:32:57 jhunter Exp $

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/*

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/\*--

$Id: ProcessingInstruction.java,v 1.46 2004/02/27 11:32:57 jhunter Exp $

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*/

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$Id: XMLOutputter.java,v 1.112 2004/09/01 06:08:18 jhunter Exp$

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*/
$Id: CrimsonDOMAdapter.java,v 1.16 2004/02/06 09:28:31 jhunter Exp $

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* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/adapters/CrimsonDOMAdapter.java
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$Id: TextBuffer.java,v 1.8 2004/02/06 09:28:31 jhunter Exp $

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$Id: ContentList.java,v 1.39 2004/02/28 03:30:27 jhunter Exp $

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$Id: DOMOutputter.java,v 1.41 2004/09/03 06:03:42 jhunter Exp $

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$Id: IllegalTargetException.java,v 1.14 2004/02/06 09:28:30 jhunter Exp $

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/*

Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/Attribute.java
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/*

Std: XSLTransformer.java,v 1.2 2004/02/06 09:28:32 jhunter Exp $

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Sibling: NamespaceStack.java,v 1.13 2004/02/06 09:28:32 jhunter Exp $  

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/jdom/output/NamespaceStack.java
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$Id: JDOMFactory.java,v 1.8 2004/09/01 05:25:38 jhunter Exp $

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* /opt/cola/permits/100099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/JDOMFactory.java
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$Id: IllegalNameException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp$

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$Id: AttributeList.java,v 1.23 2004/02/28 03:30:27 jhunter Exp $

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/AttributeList.java
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$Id: ContentFilter.java,v 1.14 2004/08/31 04:56:07 jhunter Exp $

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* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/jdom/filter/ContentFilter.java
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$Id: Element.java,v 1.152 2004/09/03 06:35:39 jhunter Exp $

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$Id: IllegalDataException.java,v 1.13 2004/02/06 09:28:30 jhunter Exp $

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$Id: FilterIterator.java,v 1.5 2004/08/31 19:36:12 jhunter Exp $

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$Id: OracleV1DOMAdapter.java,v 1.19 2004/02/06 09:28:31 jhunter Exp $

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Found in path(s):
* /opt/cola/permits/1000099892_1646171453.54/0/jdom-1-0-sources-jar/org/jdom/DataConversionException.java

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$Id: Format.java,v 1.10 2004/09/07 06:37:20 jhunter Exp $

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$Id: EntityRef.java,v 1.21 2004/02/27 11:32:57 jhunter Exp $

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$Id: SAXBuilder.java,v 1.89 2004/09/03 18:24:28 jhunter Exp $

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/eventbus/Dispatcher.java
jar/com/google/common/base/MoreObjects.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/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/Table.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/PeekingIterator.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources.jar/com/google/common/collect/Immuta
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedIterable.java

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingListMultimap.java
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/*
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*/
/*
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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.
*/

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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Present.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/BoundType.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/Queues.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/primitives/Floats.java
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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/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/Partially.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMap.java
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  jar/com/google/common/collect/SortedMultisets.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
  jar/com/google/common/collect/SortedMultiset.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:
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 *
 * Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.
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 * /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/JdkPattern.java
 * /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/CommonMatcher.java
 * /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/PatternCompiler.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/SortedSetMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Lists.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Sets.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Maps.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ConcurrentHashMultiset.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ReverseOrdering.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingQueue.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableList.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/LinkedListMultimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/Multimap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/CompoundOrdering.java
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/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
* 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 {@code ImmutableSortedMap#of(Comparable, Object)}</b>.
*/
Found in path(s):
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collection/CollectSpliterators.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/annotations/package-info.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/annotations/GwtCompatible.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractService.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/io/ByteArrayDataOutput.java
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  jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-
  jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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  jar/com/google/common/base/Verify.java
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  jar/com/google/common/eventbus/SubscriberExceptionHandlerContext.java
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  jar/com/google/common/eventbus/SubscriberExceptionContext.java
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  jar/com/google/common/base/VerifyException.java
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  jar/com/google/common/base/Utf8.java
jar/com/google/common/collection/FilteredMultimapValues.java
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jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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jar/com/google/common/collection/ImmutableMapEntry.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
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* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/ConfigurableMutableNetwork.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/ConfigurableMutableGraph.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1110732213_1606846685.93/0/guava-24-1-1-jre-sources-jar/com/google/common/graph/ConfigurableValueGraph.java
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1.125 jackson-datatype-jsr310 2.13.2

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1.127 terracotta-toolkit-runtime 5.4.0

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/**
* defragment one member of the cluster.
*
* <p>After compacting the keyspace, the backend database may exhibit internal
* fragmentation. Any internal fragmentation is space that is free to use
* by the backend but still consumes storage space. The process of
* defragmentation releases this storage space back to the file system.
* Defragmentation is issued on a per-member so that cluster-wide latency
* spikes may be avoided.
*
* <p>Defragment is an expensive operation. User should avoid defragmenting
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* To defragment multiple members in the cluster, user need to call defragment
* multiple times with different endpoints.
*/

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/**
 * defragment one member of the cluster by its endpoint.
 *
 * <p>After compacting the keyspace, the backend database may exhibit internal
 * fragmentation. Any internal fragmentation is space that is free to use
 * by the backend but still consumes storage space. The process of
 * defragmentation releases this storage space back to the file system.
 * Defragmentation is issued on a per-member so that cluster-wide latency
 * spikes may be avoided.
 *
 * <p>Defragment is an expensive operation. User should avoid defragmenting
 * multiple members at the same time.
 * To defragment multiple members in the cluster, user need to call defragment
 * multiple times with different endpoints.
 */
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* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/IntConst.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/TransformBefore.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/tools/reflect/Sample.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ClassPoolTail.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/convert/Transformer.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/bytecode/LineNumberAttribute.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/KeywordTable.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtConstructor.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/SyntaxException.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/Javac.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ClassFilePrinter.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtClass.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/ClassPool.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/util/HotSwapper.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtBehavior.java
* /opt/cola/permits/1255880306_1642609938.26/0/javassist-3-28-0-ga-sources-jar/javassist/CtMember.java
1.134 curl 7.69.1-r1

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=============

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## OpenLDAP

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## libssh2

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### 1.135 dom4j 1.6

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  jar/org/codehaus/cargo/container/property/TransactionSupport.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/property/RemotePropertySet.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/spi/AbstractRemoteContainer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/configuration/entry/Resource.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/configuration/builder/ConfigurationEntryType.java
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  jar/org/codehaus/cargo/container/spi/AbstractContainer.java
  /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/spi/deployer/DeployerWatchdog.java
  /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/ContainerType.java
  /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/deployer/URLDeployableMonitor.java
  /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/deployer/EJB.java
  /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/deployer/DeployableMonitor.java
  /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/spi/configuration/AbstractRuntimeConfiguration.java
  /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/property/DataSourceConverter.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/property/EmbeddedLocalContainer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/internal/util/PropertyUtils.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/deployer/AbstractEmbeddedLocalDeployer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/deployer/AbstractDeployable.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/spi/configuration/AbstractExistingLocalConfiguration.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/spi/configuration/AbstractConfigurationCapability.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/spi/packager/AbstractDirectoryPackager.java
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/spi/deployer/AbstractLocalDeployer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/spi/deployer/AbstractRemoteDeployer.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/internal/RunnableContainer.java
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/configuration/ConfigurationType.java
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/deployer/DeployableMonitorListener.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-jar/org/codehaus/cargo/container/configuration/RuntimeConfiguration.java
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 >/*
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Found in path(s):
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
jar/org/codehaus/cargo/container/configuration/FileConfig.java
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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/property/DatasourcePropertySet.java
* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/property/ResourcePropertySet.java

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* /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/spi/configuration/AbstractRuntimeConfigurationCapability.java

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  jar/org/codehaus/cargo/container/State.java
  * /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/configuration/ConfigurationCapability.java
  * /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/property/ServletPropertySet.java
  * /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
  jar/org/codehaus/cargo/container/property/GeneralPropertySet.java
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  * /opt/cola/permits/1007687334_1643518593.91/0/cargo-core-api-container-1-0-sources-
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1.137 activation 1.1.1

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* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/com/sun/activation/registries/LogSupport.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/FileDataSource.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/FileTypeMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/ActivationDataFlavor.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/MailcapCommandMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/MimetypesFileTypeMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/CommandMap.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/com/sun/activation/registries/MailcapTokenizer.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/com/sun/activation/viewers/TextEditor.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/DataContentHandlerFactory.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/com/sun/activation/registries/MimeTypeEntry.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/Handler.java
* /opt/cola/permits/1348998982_1655878597.1061049/0/activation-1-1-1-sources-8-jar/javax/activation/CommandObject.java
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1.138 isorelax 20090621
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1.139 jersey-container-servlet-core 2.6

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# Maintainer: Francesco Colista <francesco.colista@gmail.com>

pkgname=perl-software-license
_pkgreal=Software-License
pkgver=0.103004
pkgrel=0
pkgdesc="packages that provide templated software licenses"
url="http://search.cpan.org/dist/Software-License/
arch="noarch"
license="GPL PerlArtistic"
cpandepends="perl-text-template perl-data-section perl-sub-install"
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev $cpanmakedepends"
subpackages="$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/R/RJ/RJBS/_pkgreal-$pkgver.tar.gz"

_builddir="$srcdir/_pkgreal-$pkgver"

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

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

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

md5sums="0c5fd53d93818566234578b27d667b35  Software-License-0.103004.tar.gz"

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pkgname=py-flake8-copyright
pkgname=flake8-copyright
pkgver=0.2.0
pkgrel=0
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${pkgname:0:1}/${pkgname}/$_pkgname-$pkgver.tar.gz"
builddir="$srcdir"/$_pkgname-$pkgver

build() {
    cd "$builddir"
    python3 setup.py build || return 1
}

package() {
    cd "$builddir"
    python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d74933bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fcccfe2b73  flake8-copyright-0.2.0.tar.gz"
sha512sums="bab1bfaeed3a525ac3c7da12b1f2ec338c204cc69b72d05cd39560e528faeff5d586c3b1be9570f4a977a7e247b8586e543bfba12abce256b2023c8c4993eeb90  flake8-copyright-0.2.0.tar.gz"

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pkgname=libart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
license="LGPL"
depends=
makedepends=
subpackages="$pkgname-dev"

_prepare="$srcdir"/libart_lgpl-$pkgver

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

package() {
  cd "$_builddir"
  make DESTDIR="$pkgdir" install || return 1
}

md5sums="08559ff3c67fd95d57b0c5e91a6b4302 libart_lgpl-2.3.21.tar.bz2"
# Automatically generated by apkbuild-cpan, template 1
# Contributor: Valery Kartel <valery.kartel@gmail.com>
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pkgname=perl-bsd-resource
_ppkgreal=BSD-Resource
pkgver=1.2909
pkgrel=1
pkgdesc="Perl extension implements the BSD process resource limit functions"
url="http://search.cpan.org/dist/BSD-Resource/"
arch="all"
license="GPL PerlArtistic"
cpandepends=""
cpanmakedepends=""
depends="$cpandepends"
makedepends="perl-dev \$cpanmakedepends"
subpackages="\$pkgname-doc"
source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$_pkgreal-$pkgver.tar.gz"

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

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

build() {
    cd "$__builddir"
    export CFLAGS=`perl -MConfig -E 'say $Config{ccflags}'`
    make && make test || return 1
}

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

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sha256sums="c47d460e2bd00d8d049f6ff4a0f1f61957e289e8de45af5c79e851e2e855e06  BSD-Resource-1.2909.tar.gz"
sha512sums="5f489eac5089e82081b7cf51d62638750e443751b49415407354da96b17771819b5e6e85529faa41ddd85743363750157943c7f7700276ccee2bd40a429fa430  BSD-Resource-1.2909.tar.gz"

mini_sendmail - accept email on behalf of real sendmail

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4.1.48.Final

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  jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native- unix-common-4-1-48-final-sources-
  jar/netty_unix_jni.h
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Found in path(s):
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-
  jar/netty_unix_socket.c
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-
  jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-
  jar/netty_unix_socket.h
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  jar/io/netty/channel/unix/ServerDomainSocketChannel.java
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  jar/io/netty/channel/unix/UnixChannel.java
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  jar/io/netty/channel/unix/FileDescriptor.java
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  jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1258891326_1643118315.87/0/netty-transport-native-unix-common-4-1-48-final-sources-
  jar/netty_unix_filedescriptor.c
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  jar/io/netty/channel/unix/DatagramSocketAddress.java
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  jar/netty_unix_errors.c
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  jar/io/netty/channel/unix/DomainSocketReadMode.java
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1.143 cxf-bundle-jaxrs 2.7.11

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1.144 hjson 1.1.4

1.145 geronimo-spec-j2ee-management 1.0-rc4

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1.147 commons-lang3 2.4

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<!ELEMENT confidentiality (#PCDATA)>

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The confidentiality can be one of the following values:

requirements

Example:

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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

*/

/* zutil.c -- target dependent utility functions for the compression library
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SNMP4J - OIDTextFormat.java

Multithreaded Trap Receiver.java

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1.165 hazelcast 4.2.4

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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.
* <p>
* 2 bytes length field at offset 0, do not strip header</h3>
* <p>
* 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)
* </pre>
* * BEFORE DECODE (14 bytes)        AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
* <p>
* 2 bytes length field at offset 0, strip header</h3>
* <p>
* 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)
* </pre>
* * BEFORE DECODE (14 bytes)        AFTER DECODE (12 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* 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
* \texttt{lengthAdjustment}. Because the length value in this example message
* is always greater than the body length by \texttt{2}, we specify \texttt{-2} for compensation.

\begin{verbatim}
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 |
| 0x000E | "HELLO, WORLD" |
+--------+----------------+

BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |
| 0xCAFE  | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+

BEFORE DECODE (17 bytes)         AFTER DECODE (17 bytes)
+----------+----------+----------------+      +----------+----------+----------------+
| Header 1 |  Length  | Actual Content |
| 0xCAFE  | 0x00000C | "HELLO, WORLD" |
+----------+----------+----------------+

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
* `<b>`lengthAdjustment`<b>` = `<b>`2`<b>` (= 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
* `<b>`lengthAdjustment`<b>` = `<b>`1`<b>` (= the length of HDR2)
* `<b>`initialBytesToStrip`<b>` = `<b>`3`<b>` (= 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.
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 |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
+-----------------------------------------+------------------------+

@see LengthFieldPrepender

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jar/io/netty/handler/codec/ValueConverter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/CodecException.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
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* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
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  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/Headers.java

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  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/String/LineSeparator.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/String/LineEncoder.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
  jar/io/netty/handler/codec/DatagramPacketEncoder.java
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  jar/io/netty/handler/codec/DateFormatter.java
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  jar/io/netty/handler/codec/compression/BufChecksum.java
* /opt/cola/permits/1248311114_1640414893.07/0/netty-codec-4-1-72-final-sources-
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1.171 annotations 2.0.1

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1.183 py3-urllib 1.26.7-r0

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jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/cola/permits/1258888048_1643118322.05/0/netty-handler-proxy-4-1-48-final-sources-
jar/io/netty/handler/proxy/ProxyConnectionEvent.java
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jar/io/netty/handler/proxy/package-info.java
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jar/io/netty/handler/proxy/Socks4ProxyHandler.java
*  /opt/cola/permits/1258888048_1643118322.05/0/netty-handler-proxy-4-1-48-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
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1.190 jsch 0.1.55

1.191 jackson-annotations 2.10.0

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1.192 janino 3.0.11

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* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/UnicodeUnescapeException.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/util/ClassFile.java
* /opt/cola/permits/1258889690_1643120183.25/0/janino-3-0-11-sources-jar/org/codehaus/janino/Access.java
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1.193 jackson-dataformat-xml 2.10.5
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### 1.194 hibernate-entitymanager 5.4.2.Final

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1.199 byte-buddy-agent 1.10.14

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

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Apache

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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

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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1.202 sigar 1.6.4
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1.204 py3-pep 0.12.0-r0

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**1.207 model 2.6.1**

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* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-
jar/io/grpc/okhttp/internal/OkHostnameVerifier.java
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* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/NegotiationType.java
* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OkHttpChannelProvider.java

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* /opt/cola/permits/1003167138_1606873739.6/0/grpc-okhttp-1-6-0-sources-1-jar/io/grpc/okhttp/OkHttpReadableBuffer.java
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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
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We call this license the @dfn{Lesser General Public License} because it does @emph{Less} to protect the user's freedom than the ordinary General
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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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with the Library, with the complete machine-readable "work that
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@end subheading

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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@end example

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

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 */
/**
 * Marker interface for credentials required to authenticate a principal.
 *
 * The Credentials is an opaque object that represents the information a user
 * asserts proves that the user is who it says it is. In CAS, any information
 * that is to be presented for authentication must be wrapped (or implement) the
 * Credentials interface. Credentials can contain a userid and password, or a
 * Certificate, or an IP address, or a cookie value. Some credentials require
 * validation, while others (such as container based or Filter based validation)
 * are inherently trustworthy.
 *
 * People who choose to implement their own Credentials object should take care that
 * any toString() they implement does not accidentally expose confidential information.
 * toString() can be called from various portions of the CAS code base, including logging
 * statements, and thus toString should never contain anything confidential or anything
 * that should not be logged.
 *
 * Credentials objects that are included in CAS do NOT expose any confidential information.
 *
 * @author William G. Thompson, Jr.
 * @version $Revision: 1.2 $ $Date: 2007/01/22 20:35:26 $
 * @since 3.0
 *
 * This is a published and supported CAS Server 3 API.
 */

Found in path(s):
/opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/principal/Credentials.java

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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/ticket/registry/support/JdbcLockingStrategy.java

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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/web/RegisteredServiceValidator.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/ReloadableServicesManager.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/DefaultServicesManagerImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/web/support/RegisteredServiceValidator.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/ReloadableServicesManager.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/services/DefaultServicesManagerImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/NamedAuthenticationHandler.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/NamedAuthenticationHandler.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/NamedAuthenticationHandler.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-jar/org/jasig/cas/authentication/handler/NamedAuthenticationHandler.java
java jar/org/jasig/cas/util/HttpClient.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/services/IpaServiceRegistryDaoImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/authentication/handler/support/AbstractPreAndPostProcessingAuthenticationHandler.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/authentication/handler/support/AbstractPreAndPostProcessingAuthenticationManagerImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/authentication/PrincipalNameTransformer.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/services/RegisteredServiceImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/services/RegisteredService.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/services/ServiceRegistryDao.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/services/UnauthorizedProxyingException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
  jar/org/jasig/cas/ticket/registry/support/NoOpLockingStrategy.java

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* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2.jar/org/jasig/cas/CentralAuthenticationServiceImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2.jar/org/jasig/cas/web/support/InMemoryThrottledSubmissionByIpAddressAndUsernameHandlerInterceptorAdapter.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2.jar/org/jasig/cas/ticket/support/HardTimeoutExpirationPolicy.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2.jar/org/jasig/cas/web/StatisticsController.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2.jar/org/jasig/cas/authentication/handler/support/SimpleTestUsernamePasswordAuthenticationHandler.java
jar/org/jasig/cas/util/DefaultLongNumericGenerator.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/ticket/TicketException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/AuthenticationManagerImpl.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/handler/PasswordEncoder.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/principal/UsernamePasswordCredentials.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/web/support/WebUtils.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/web/support/SamlArgumentExtractor.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/handler/UnknownUsernameAuthenticationException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/principal/HttpBasedServiceCredentialsToPrincipalResolver.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/handler/support/AbstractUsernamePasswordAuthenticationHandler.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/ticket/support/MultiTimeUseOrTimeoutExpirationPolicy.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/ticket/registry/support/DefaultTicketRegistryCleaner.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/web/support/CasArgumentExtractor.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/web/support/InspektrThrottledSubmissionByIpAddressAndUsernameHandlerInterceptorAdapter.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/authentication/handler/BadUsernameOrPasswordAuthenticationException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/services/UnauthorizedServiceException.java
* /opt/cola/permits/1173229505_1623520018.28/0/cas-server-core-3-4-2-sources-2-
jar/org/jasig/cas/web/flow/InitialFlowSetupAction.java

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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/LoggingDnsQueryLifeCycleObserverFactory.java
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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/NoopDnsCache.java
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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-
  jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
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  jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
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  jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
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  jar/io/netty/resolver/dns/RotationalDnsServerAddressStream.java
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  jar/io/netty/resolver/dns/RotationalDnsServerAddressStream.java
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  jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-
  jar/io/netty/resolver/dns/DnsNameResolverException.java

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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsResolveContext.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DnsAddressResolveContext.java
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* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
* /opt/cola/permits/1302203795_1649325953.93/0/netty-resolver-dns-4-1-74-final-sources-1-jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
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SNMP4J - UsmUserTable.java
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SNMP4J - TableEvent.java

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SNMP4J - AbstractTransportServerThread.java

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* /opt/cola/permits/1336062906_1654014326.9861164/0/snmp4j-3-7-0-sources-jar/org/snmp4j/security/TSM.java
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  jar/org/snmp4j/transport/tls/TLSTMUtil.java
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### SNMP4J - module-info.java
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  <id:oosnmpRepo</id>
  <name>snmp.app Snapshots</name>
  <url>day:https://snmp.app/dist/snapshot</url>
  <layout>default</layout>
</snapshotRepository>
</distributionManagement>
</build>
</plugins>
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  <id>ossrh</id>
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      <extensions>true</extensions>
      <configuration>
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<plugins>
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    <artifactId>maven-help-plugin</artifactId>
    <version>2.2</version>
</plugin>
<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-source-plugin</artifactId>
    <version>3.2.1</version>
    <configuration>
        <excludes>
            <exclude>src/test/*</exclude>
        </excludes>
    </configuration>
    <executions>
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            <id>attach-sources</id>
            <phase>verify</phase>
            <goals>
                <goal>jar-no-fork</goal>
            </goals>
        </execution>
    </executions>
</plugin>
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    <artifactId>maven-javadoc-plugin</artifactId>
    <version>3.4.0</version>
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<version>3.3.0</version>
<configuration>
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    <descriptor>assembly.xml</descriptor>
  </descriptors>
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<executions>
  <execution>
    <id>make-assembly</id>
    <phase>package</phase>
    <goals>
      <goal>single</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugins>
</build>
</project>

Found in path(s):
* /opt/cola/permits/1336062906_1654014326.9861164/0/snmp4j-3-7-0-sources-jar/META-INF/maven/org.snmp4j/snmp4j/pom.xml
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options.des.y=Set the privacy protocol to be used to encrypt SNMPv3 messages. Valid values are DES, AES (AES128), AES192, AES256, AES192p, AES256p, and 3DES(DSEDE). The AES protocols that end with 'p' (for proprietary) are using a non-standardized key extension algorithm from 3DES.
SNMP4J - ReadonlyVariableCallback.java

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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources.jar/springfox/documentation/spring/web/readers/operation/OperationModelsProvider.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources.jar/springfox/documentation/spring/web/readers/operation/DefaultOperationReader.java

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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/paths/OperationPathDecorator.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReferenceScanResult.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReader.java
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 * /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationParameterHeadersConditionReader.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/SpringfoxWebConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/ResponseMessagesReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterDataTypeReader.java
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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DocumentationPluginsManager.java

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1.240 springfox-spring-webmvc 3.0.0

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* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
jar/springfox/documentation/spring/web/WebMvcNameValueExpressionWrapper.java
* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
jar/springfox/documentation/spring/web/WebMvcPatternsRequestConditionWrapper.java
* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
jar/springfox/documentation/spring/web/WebMvcRequestMappingInfoWrapper.java

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* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
  jar/springfox/documentation/spring/web/WebMvcObjectMapperConfigurer.java
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* /opt/ws_local/PERMITS_SQL/1082517930_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-
  jar/springfox/documentation/spring/web/SpringfoxWebMvcConfiguration.java
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1.241 aspect-j 1.8.4
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1.242 tim-api 1.3.0

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* /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/personality/plexus/lifecycle/phase/Contextualizable.java
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* /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/plexus/Constants.java
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* /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1-0-alpha-30-sources-jar/org/codehaus/plexus/lifecycle/phase/Startable.java
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* /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1.0-alpha-30-sources.jar/org/codehaus/plexus/component/repository/exception/ComponentProfileException.java
* /opt/cola/permits/1258885149_1643118801.74/0/plexus-component-api-1.0-alpha-30-sources.jar/org/codehaus/plexus/component/repository/ComponentRequirement.java
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1.246 jakarta-validation-api 2.0.2

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1.247 opensaml 1.1
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* /opt/cola/permits/1000468712_1607081013.73/0/opensaml-1.1.406-source-tar-gz/opensaml-
1.1.406/repo/opensaml-1/1/406/opensaml-
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 */

Found in path(s):
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/$Gson$Types.java
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Found in path(s):
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/stream/JsonReader.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TimeTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TreeTypeAdapter.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSyntaxException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Streams.java

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1.254 apr 1.6.5

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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1.255 sparsebitset 1.2

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  <modelVersion>4.0.0</modelVersion>

  <groupId>com.zaxxer</groupId>
  <artifactId>SparseBitSet</artifactId>
  <version>1.2</version>
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      </configuration>
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    <plugin>
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      <artifactId>maven-source-plugin</artifactId>
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      <artifactId>maven-javadoc-plugin</artifactId>
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  </plugins>
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          </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>
  </build>
</plugins>

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

1.256 reflections 0.9.9-RC1

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/DecoderResultProvider.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Constants.java

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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/CodecOutputList.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/LineEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/LineSeparator.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/Zstd.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/BrotliEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/StandardCompressionOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/ZstdEncoder.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/DeflateOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/GzipOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/CompressionOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/Brotli.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/BrotliOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io.netty.handler.codec.compression/ZstdOptions.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
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* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1301894864_1649303999.02/0/netty-codec-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeadersImpl.java
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/*
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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/**
* Utility class for {link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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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.
 */

/*
 * {@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 &lt;tt&gt;12 (0x0C)&lt;/tt&gt; 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>
 * <b>lengthFieldOffset</b>   = <b>0</b>
 * <b>lengthFieldLength</b>   = <b>2</b>
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 * </pre>
 *
 * 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 &lt;tt&gt;initialBytesToStrip&lt;/tt&gt;. In this example, we
 * specified &lt;tt&gt;2&lt;/tt&gt;, that is same with the length of the length field, to
 * strip the first two bytes.
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
 * </pre>
 */
* BEFORE DECODE (14 bytes)          AFTER DECODE (14 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* \texttt{lengthAdjustment} \neq 0
* \texttt{lengthFieldOffset} = 2
* \texttt{lengthFieldLength} = 3
* \texttt{lengthAdjustment} = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +--------+--------+----------------+      +--------+--------+----------------+
* | Header 1 | Length  | Actual Content |----->| Header 1 | Length  | Actual Content |
* | 0xCAFE  | 0x000E | "HELLO, WORLD" |      | 0xCAFE  | 0x000E | "HELLO, WORLD" |
* +--------+--------+----------------+      +--------+--------+----------------+
* 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
* <b>lengthAdjustment</b>    = <b>2</b> (= 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>
* "</pre>
* 
* 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
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= 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>
* "</pre>
* 
* 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
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= 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>
* "</pre>
* 
* 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
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= 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>
* "</pre>
* 
* 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>.
* 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.
* `<tt>
* </tt>`
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* `<tt>lengthAdjustment</tt>` = `<tt>-3</tt>` (= the length of HDR1 + LEN, negative)
* `<tt>initialBytesToStrip</tt>` = `<tt>3</tt>`
* `*` BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +----------------+-----------------+    +-----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +----------------+-----------------+    +-----------------+
* `* </tt>`
* `@see LengthFieldPrepender`
* `*/`

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1.267 jackson-databind 2.10.5

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1.268 spring-plugin-metadata 2.0.0.RELEASE

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1.270 surefire-testng-utils 2.18.1
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1.271 byte-buddy 1.10.10

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* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-jar/com/sun/xml/bind/v2/model/core/LeafInfo.java
* /opt/cola/permits/1334904536_1653676449.1070127/0/jaxb-core-2-3-0-sources-10-
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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollInputStreamChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollOutputStreamChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/EpollRecipient.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.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.
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* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4.1.48-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java

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jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-
jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1258894767_1643118297.5/0/netty-transport-native-epoll-4-1-48-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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The confidentiality can be one of the following values:

requirements

Example:
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* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4-1-48-final-sources-jar/io/netty/resolver/AddressResolver.java
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 */

Found in path(s):
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4.1.48-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
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Found in path(s):
* /opt/cola/permits/1258896973_1643118329.47/0/netty-resolver-4-1-48-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

1.291 py3-html5lib 1.0.1-r4
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1.294 plexus-utils 2.0.5
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* /opt/cola/permits/1249904385_1641223073.61/0/netty-codec-socks-4-1-72-final-sources.jar/io/netty/handler/codec/socks/SocksInitRequest.java
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* /opt/cola/permits/1249904385_1641223073.61/0/netty-codec-socks-4-1-72-final-sources.jar/io/netty/handler/codec/socks/SocksMessage.java
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 */
/**
* Create a transactional EntityManager proxy for the given EntityManagerFactory.
* @param emf EntityManagerFactory to obtain EntityManagers from as needed
* @param properties the properties to be passed into the
* <code>createEntityManager</code> call (may be <code>null</code>)
* @param entityManagerInterfaces the interfaces to be implemented by the
* EntityManager. Allows the addition or specification of proprietary interfaces.
* @return a shareable transactional EntityManager proxy
*/

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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewInterceptor.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/HibernateAccessor.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaDialect.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/OpenJpaVendorAdapter.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/ibatis/SqlMapClientOperations.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jdo/support/JdoDaoSupport.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/support/OpenSessionInViewInterceptor.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/vendor/TopLinkJpaDialect.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/support/HibernateDaoSupport.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/SpringTransactionFactory.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/ibatis(SqlMapClientCallback.java
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/jpa/JpaVendorAdapter.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hibernate3/SpringSessionFactory.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1-jar/org/springframework/orm/hbm/Hibernate3Support.java
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* /opt/ cola/ permits/1138131224_1614265668.82/0/ spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/vendor/EntityTransactionFactoryAccessor.java
* /opt/ cola/ permits/1138131224_1614265668.82/0/ spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jdo/JdoUsageException.java
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/vendor/HibernateJpaDialect.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/persistenceunit/SmartPersistenceUnitInfo.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/hibernate3/FilterDefinitionFactoryBean.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jdo/DefaultJdoDialect.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/persistenceunit/SpringPersistenceUnitInfo.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jdo/DefaultJdoDialect.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/persistenceunit/MutablePersistenceUnitInfo.java
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* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/ibatis/SqlMapClientTemplate.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/EntityManagerFactoryInfo.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/EntityManagerFactoryUtils.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/hibernate3/annotation/AnnotationSessionFactoryBean.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/EntityModelFactoryInfo.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/EntityModelFactoryUtils.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitReader.java
* /opt/cola/permits/1138131224_1614265668.82/0/spring-orm-3-0-5-release-sources-1.jar/org/springframework/orm/hibernate3/annotation/EntityModelFactoryInfo.java
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1.305 trove4j 1.1-beta-5

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$Id: AwkMatcher.java,v 1.11 2003/11/07 20:16:24 dfs Exp $*

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/**
 * Determines if the contents of a PatternMatcherInput, starting from the
 * current offset of the input contains a pattern.
 * If a pattern match is found, a MatchResult
 * instance representing the <b>first</b> match is made accessible via
 * {@link #getMatch()}. The current offset of the
 * PatternMatcherInput is set to the offset corresponding to the end
 * of the match, so that a subsequent call to this method will continue
 * searching where the last call left off. You should remember that the
 * region between the begin and end offsets of the PatternMatcherInput are

* considered the input to be searched, and that the current offset
  * of the PatternMatcherInput reflects where a search will start from.
  * Matches extending beyond the end offset of the PatternMatcherInput
  * will not be matched. In other words, a match must occur entirely
  * between the begin and end offsets of the input. See
  * {@link org.apache.oro.text.regex.PatternMatcherInput PatternMatcherInput}
  * for more details.
  * <p>
  * As a side effect, if a match is found, the PatternMatcherInput match
  * offset information is updated. See the PatternMatcherInput
  * {@link org.apache.oro.text.regex.PatternMatcherInput#setMatchOffsets setMatchOffsets}
  * method for more details.
  * <p>
  * The pattern must be an AwkPattern instance, otherwise a
  * ClassCastException will be thrown. You are not required to, and
  * indeed should NOT try to (for performance reasons), catch a
  * ClassCastException because it will never be thrown as long as you use
  * an AwkPattern as the pattern parameter.
  * <p>
  * This method is usually used in a loop as follows:
  * <pre><blockquote><br/>
  * PatternMatcher matcher;
  * PatternCompiler compiler;
  * Pattern pattern;
  * PatternMatcherInput input;
  * MatchResult result;
  *
  * compiler = new AwkCompiler();
  * matcher = new AwkMatcher();
  *
  * try {
  *   pattern = compiler.compile(somePatternString);
  * } catch(MalformedPatternException e) {
  *   System.err.println("Bad pattern.");
  *   System.err.println(e.getMessage());
  *   return;
  * }
  *
  * input = new PatternMatcherInput(someStringInput);
  *
  * while(matcher.contains(input, pattern)) {
  *   result = matcher.getMatch();
  *   // Perform whatever processing on the result you want.
  * }
  *
  * </pre></blockquote>
  * <p>
  * @param input  The PatternMatcherInput to test for a match.
* @param pattern The Pattern to be matched.
* @return True if the input contains a pattern match, false otherwise.
* @exception ClassCastException If a Pattern instance other than an
*       AwkPattern is passed as the pattern parameter.
*/

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* /opt/cola/permits/1000740375_1646171523.75/0/oro-2-0-8-sources-jar/org/apache/oro/text/awk/AwkMatcher.java

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* /opt/cola/permits/1000740375_1646171523.75/0/oro-2-0-8-sources-jar/org/apache/oro/text/awk/AwkPattern.java
1.308 postgresql-jdbc 42.3.3

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1.313 py3-distlib 0.3.0-r0

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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Distutils2 Contributors

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!
Thanks to:

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- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martín Brugu
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1.317 postgresql-jdbc 42.2.18

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1.318 postgresql14 14.4-r0
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1.319 javax-ws-rs-api 2.1.1

1.320 maven-shared-utils 0.9

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1.322 failsafe 2.4.4

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*/opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/mk-ca-bundle.pl

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#
#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute --       -- type --          -- value --
# CKA_CLASS             CK_OBJECT_CLASS     CKO_CERTIFICATE
# CKA_TOKEN             CK_BBOOL            CK_TRUE
# CKA_PRIVATE           CK_BBOOL            CK_FALSE
# CKA_MODIFIABLE        CK_BBOOL            CK_FALSE
# CKA_LABEL             UTF8                (varies)
# CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT           DER+base64          (varies)
# CKA_ID                byte array          (varies)
# CKA_ISSUER            DER+base64          (varies)
# CKA_SERIAL_NUMBER     DER+base64          (varies)
# CKA_VALUE             DER+base64          (varies)
# CKA_NSS_EMAIL         ASCII7              (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64          (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64          (varies)
#
# Trust
#
# -- Attribute --       -- type --          -- value --
# CKA_CLASS             CK_OBJECT_CLASS     CKO_TRUST
# CKA_TOKEN             CK_BBOOL            CK_TRUE
# CKA_PRIVATE           CK_BBOOL            CK_FALSE
# CKA_MODIFIABLE        CK_BBOOL            CK_FALSE
# CKA_LABEL             UTF8                (varies)
# CKA_ISSUER            DER+base64          (varies)
# CKA_SERIAL_NUMBER     DER+base64          (varies)
# CKA_CERT_HASH         binary+base64        (varies)
# CKA_EXPIRES           CK_DATE             (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST (varies)
# CKA_TRUST_NON_REPUDIATION CK_TRUST (varies)
# CKA_TRUST_KEY_ENCIIPHERMENT CK_TRUST (varies)
# CKA_TRUST_DATA_ENCIIPHERMENT 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:04:00:00:00:01:15:4b: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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign 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,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
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CKA_CLASS CK_OBJECT_CLASS 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\025\130\227\254\017\206\156\052\304\126\061\225\320\147\211\205\053\371\154\246\135\106\235
\014\252\252\202\44\231\121\335\160\267\333\126\075\141\344\152\341\143\326\366\376\075\336\101\134\007\256\143\122\277\123\123\364
\053\351\130\75\266\367\202\137\205\322\101\130\303\333\201\126\300\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\1340
# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# 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", O=VeriSign Trust Network, 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", O=VeriSign Trust Network, C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After: Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_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
\067\105\122\025\011\121\122\134\126\135\067\123\207\105\122
END

CKA_ISSUER MULTILINE_OCTAL
\067\105\122\025\011\121\073\062\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\102\060\160\006\003
\125\104\013\023\07\122\157\157\164\040\013\101\153\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\123\103\132\061
END

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

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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
\040\102\205\334\367\353\166\101\225\127\216\023\153\324\267\321
\351\216\106\245
END
CKA_ISSUER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

Open Source Used In Crosswork Common EMS Services 4.0.0  2566
# 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


# 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


Open Source Used in Crosswork Common EMS Services 4.0.0

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
062/062/060/070/063/061/060/060/060/060/060/060/060/060/060/00153
# Trust for 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
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE 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
# Class CK_OBJECT_CLASS
# Token CK_BBOOL
# Private CK_BBOOL
# Modifiable CK_BBOOL
# Trust Server Auth CK_BBOOL
# Trust Email Protection CK_BBOOL
# Trust Code Signing CK_BBOOL
# Trust Step Up Approved CK_BBOOL
# 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

CKA_CLASS CK_OBJECT_CLASS 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
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\023\346\350\265\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\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\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\163\060\061\010\060\003\125\004\003\023\052\010\56\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
# 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

CKA_CLASS CK_OBJECT_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\0271
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\020\022\002\137\240\003\002\001\002\002\004\002
\000\000\271\060\015\006\011\052\206\110\026\367\015\001\000\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\16
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\050\103\171\142\145\162\124\162\165\163\164\061\042\060\040\060\000\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\123\060\011\006\003\125\004\006\023\002\111\105\061
\022\060\020\000\003\125\004\012\023\011\102\141\154\164\151\155
\157\162\145\061\123\060\011\006\003\125\004\013\023\012\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\060\000\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_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

# Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:ID:3F: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 "Entrust Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\260\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\000\03\125\004\012\023\015\010\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\060\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\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\000\03\125\004\012\023\015\010\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\060\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
# Trust for Certificate "Entrust Root Certification Authority"

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

**# Serial Number:** 1164660820 (0x456b5054)

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

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

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

**# Fingerprint (MD5):** D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F: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 "Entrust Root Certification Authority"

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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

CKA_CLASS CK_OBJECT_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
06002011\200\061\101\13\060\011\100\06\03\125\004\006\023\002\125\123
061\026\060\024\006\003\125\004\012\023\15\105\156\164\162\165
163\164\054\040\111\115\143\150\061\071\106\067\006\003\125\004
013\023\060\167\167\167\167\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\031\125\004\103\023\026\050\143
051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
111\115\143\150\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\156\171

END

# 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

CKA_CLASS CK_OBJECT_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
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After: Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS 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\262\101\030
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\054\217\237\146\035\030\220\261\110\046\235\216\206\202\214\251
END
CKA_ISSUER MULTILINE_OCTAL
\114\353\075\252\147\157\055\324\315\376\145\061\160\305\033\246
\002\012\227\140\173\155\130\302\232\111\137\143\062\013\153\343
\072\300\254\252\073\260\350\323\011\121\141\020\203\306\064\340
\305\053\340\032\266\140\024\047\154\062\167\214\274\262\162\230
\317\151\314\077\271\130\044\102\024\326\127\374\346\046\103\251
\035\345\202\220\316\003\124\050\076\367\077\323\370\115\355\152
\012\072\223\023\233\073\024\043\233\143\234\077\321\120\070\047\171
\354\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\121\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
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "Comodo AAA Services root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\173\061\101\006\003\125\004\006\023\002\107\102\061
\033\060\031\006\003\125\004\010\014\022\107\162\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\144\157\040
\103\101\040\114\151\151\155\151\164\145\144\061\041\060\037\006\003
\125\004\003\140\030\101\101\010\100\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
\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\173\061\103\060\011\006\003\125\004\006\023\002\107\102\061

Open Source Used In Crosswork Common EMS Services 4.0.0  2583
### Trust for 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)
- **Not Valid Before:** Thu Jan 01 00:00:00 2004
- **Not Valid After:** Sun Dec 31 23:59:59 2028

---

CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
\321\353\043\244\155\027\326\217\331\045\144\302\361\361\140\0027 \\144\330\343\111
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\111\171\004\260\353\027\031\125\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\021\107\020\061 \033\060\031\060\003\03\125\004\010\001\142\022\107\162\143\141\164\145 \162\040\115\151\156\143\151\145\163\164\145\156\012\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
# 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

CKA_CLASS CK_OBJECT_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
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003\125\004\003\014\030\010\101\101\040\010\31\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

CKA_CLASS CK_OBJECT_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
\103\101\040\114\151\155\151\164\145\144\061\041\060\037\006\003\125\004\003\014\030\010\101\101\040\010\31\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\002\005\011
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\267\060\202\003\237\240\003\002\001\002\002\002\005
\035\017\004\004\003\002\001\006\060\035\006\003\125\035\016\004
\026\004\002\040\032\020\014\274\111\101\140\063\035\045\004\324\356\320\036
\003\304\030\011\060\032\012\015\030\060\016\003\125\035\043\004\147
\060\014\252\000\024\032\204\014\274\110\114\060\034\050\044\324\356\320
\366\003\034\030\011\063\032\021\245\153\241\111\124\107\060\010\050\061\013
\060\011\006\003\035\004\006\023\002\010\211\015\060\031\060\027\006
\003\125\004\012\023\020\121\165\157\126\141\144\151\116\3\040\014
\151\155\151\164\145\144\061\033\060\031\016\003\125\035\043\032\3
\022\121\165\157\126\141\144\151\116\3\040\013
\101\040\062\202\002\000\011\060\015\006\011\052\206\110\020\063\367
\015\001\001\010\005\005\000\003\020\020\002\001\000\076\012\026\115\237
\006\13\250\256\161\135\057\005\057\147\346\023\013\105\203\034\040\066
\366\363\300\004\060\014\015\265\107\144\135\370\264\162\231\110\6245
\003\030\047\125\211\117\017\166\352\226\064\020\027\040\334\347
\203\370\215\374\007\270\032\012\137\115\056\147\262\204\375\333\1104
\374\167\120\021\034\164\174\262\031\015\013\162\123\370\166\007\007
\101\017\226\014\373\340\020\046\022\312\251\137\360\043\104\145
\174\13\374\047\062\367\062\220\023\102\324\067\161\125\366\222
\041\110\367\225\171\137\237\055\046\020\071\46\126\060\167\246\067
\170\063\122\020\030\265\077\141\126\322\152\261\135\030\176\112
\131\143\121\121\242\126\325\024\057\274\126\037\317\071\031\0142
\373\012\250\025\054\175\115\172\143\030\061\154\227\104\074\322\157
\303\112\027\012\030\222\127\242\031\121\245\055\227\101\1332
\007\17\251\120\033\222\021\22\063\010\076\360\224\375\020\000
\070\365\073\035\010\034\126\165\126\032\040\314\157\130\215\355
\056\015\017\236\351\223\077\347\261\105\43\370\072\236\042\141\334
\204\273\042\157\320\037\034\030\067\175\115\004\101\041\303\027\353
\125\172\155\200\231\044\036\154\030\013\373\070\227\260\022\133\353
\137\532\157\361\167\150\015\065\144\043\325\247\012\24\100\033\231
\115\102\031\033\370\165\131\126\243\371\125\011\117\170\207\016
\271\012\240\014\74\267\152\355\064\320\266\046\142\070\032\207\014
\370\035\075\056\323\220\177\007\221\052\035\326\176\134\205\203
\231\126\070\010\077\351\136\371\065\007\344\011\142\156\127\177
\247\120\225\367\272\310\233\346\216\242\001\305\326\146\277\171
\141\136\074\034\341\271\202\134\135\240\033\315\133\010\275\031
\242\021\024\031\156\262\206\033\150\076\110\067\032\210\267\135
\226\16\324\307\357\047\142\010\034\221\010\313\134\322\361\041\335
\272\027\102\020\227\161\120\012\023\061\251\123\376\61\175\142\277\162
\341\243\222\305\134\121\046\032\011\070\032\031\327\101\150\002\026
\264\170\245\072\020\114\215\121\245\325\106\227\362\054\020\0271
\274\124\042\300\001\120\151\103\236\364\026\357\155\370\035\432
\361\13\341\261\357\337\221\217\114\052\013\045\030\104\033\130\412
\020\005\145\325\202\020\035\202\061\135\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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\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\150\061
\03\106\027\006\003\125\004\012\023\020\121\165\157\126\144\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\144\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 After : Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
\000\117\255\240\054\114\372\000\362\157\367\146\125\253\043\064
\356\347\051\332\303\133\266\260\023\313\320\320\342\041\373\363
\140\247\073\135\140\123\047\242\233\366\010\042\052\347\277\240
\162\234\51\044\152\061\126\122\170\047\333\320\320\342\021\121\104\72\246
\167\132\070\327\277\254\206\374\356\135\203\274\006\306\321\1167
\153\017\155\044\057\113\172\154\247\007\226\312\343\024\237\255
\210\213\035\253\026\215\133\146\027\333\310\263\346\213\200\322\335
\370\262\166\303\337\070\023\252\014\336\102\151\053\156\363\074
\353\020\047\333\366\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\137\361\043\210\121\070\237\362\146\166\166\347\017\121\1227
\245\122\014\115\111\112\122\250\066\075\277\242\113\014\020\035\206
\231\114\252\363\162\021\223\344\152\356\232\250\135\247\115
\267\236\002\256\163\000\310\332\043\003\350\037\135\203\116\4142
\000\022\131\042\040\276\022\447\131\265\202\152\276\231\171\172
\251\136\212\044\122\367\164\135\272\116\136\146\250\035\002\156\261
\015\200\104\030\125\63\323\043\067\173\273\205\174\053\222\056\0350
\176\245\213\133\353\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\134\031\115\150\302\075\300\135\116\042\155\356\025\130\115
\306\320\210\010\053\352\117\022\207\013\365\331\053\301\154\363\230
\002\323\240\303\125\212\006\231\031\242\240\167\321\060\236\0254
\314\165\356\203\365\260\142\071\137\154\127\342\114\322\221\013
\016\161\65\050\033\232\277\375\032\103\361\132\167\373\073\217\141
\270\151\050\026\102\004\136\160\052\034\041\330\021\341\275\043
\133\055\164\100\222\331\143\031\015\163\335\151\274\142\107\274
\340\164\053\262\335\175\276\010\033\265\300\106\305\241\042\313
\137\116\301\050\222\336\030\272\325\052\050\273\021\123\027\223
\230\231\140\224\134\043\317\132\047\227\136\013\005\006\223\067
\036\073\151\066\353\251\236\141\035\217\062\332\216\014\326\164
\076\173\011\044\332\001\167\107\304\073\315\064\214\231\365\312
\341\045\141\063\262\131\033\342\156\327\067\127\266\015\251\022
\332
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Not Valid After: Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
Open Source Used In Crosswork Common EMS Services 4.0.0 2593

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\120
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\125\127\116\257\157\134\031
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\036
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
CKA_CLASS CK_OBJECT_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\103\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
Open Source Used In Crosswork Common EMS Services 4.0.0  2595

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023

CKA_CLASS CK_OBJECT_CLASS 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
\166\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\001\006\003\125\004\006\023\002\112\120\061\030\060\026\006\003\125\004\012\023\017\123\105\031\117\150\040
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020001000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_ISSUER MULTILINE_OCTAL
060177060101306001110060031250040060230021051125061
04706004500600312500401202303610110304010311411155
14516214615111521451411040123110110410311111111101105101
0700620670640631062070067061043060041006003125004
0130230321501641601601600570571671671671671675661431150
1411155114211451621631151114711560561157116211470611042060
040006000312500400302303111031150114111551142114511621163
0401157114604010311571155115511451162114311451140112211571157
1164
END

CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060177060101306001110060031250040060230021051125061
04706004500600312500401202303610110304010311411155
14516214615111521451411040123110110410311111111101105101
0700620670640631062070067061043060041006003125004
0130230321501641601601600570571671671671671675661431150
1411155114211451621631151114711560561157116211470611042060
040006000312500400302303111031150114111551142114511621163
0401157114604010311571155115511451162114311451140112211571157
1164
END

CKA_ISSUER MULTILINE_OCTAL
060177060101306001110060031250040060230021051125061
04706004500600312500401202303610110304010311411155
14516214615111521451411040123110110410311111111101105101
0700620670640631062070067061043060041006003125004

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL

# Trust for Certificate "Camerfirma Chambers of Commerce Root"
NOT_VALID_BEFORE: Tue Sep 30 16:14:18 2003
NOT_VALID_AFTER: Wed Sep 30 16:14:18 2037

CKA_CLASS CK_OBJECT_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
0601750610130600111006003125004006023002105125061
04706004500600312500401202303610110304001031111060040101
070062067064063062070067061043060041006003125004
013023032150164164160072057057167167167056143150
141155142145162163151147156056157162147061040060
03600600312500400302302710715415714214154040103
150141155142145162163151147156040122157157164
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601750610130600111006003125004006023002105125061
04706004500600312500401202303610110304001031111060040101
070062067064063062070067061043060041006003125004
013023032150164164160072057057167167167056143150
141155142145162163151147156056157162147061040060
03600600312500400302302710715415714214154040103
150141155142145162163151147156040122157157164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002
END

CKA_VALUE MULTILINE_OCTAL
0602020004305060202003255240003002001002002001000
060015000601105220611020636701500101001005005000060
1750610130600111006003125004006023002105125061047
060045006000312500401202303610110304001031111060040101
070062067064063062070067061043060041006003125004
013023032150164164160072057057167167167056143150
141155142145162163151147156056157162147061040060
03600600312500400302302710715415714214154040103
150141155142145162163151147156040122157157164
END

OPEN_SOURCE_USED_IN_CROSSWORK_COMMON_EMS_SERVICES_4.0.0_2600
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
06206106006306006106006006000600600600132
END

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\006\120\044\233\125\172\001\207\162\204\331\340\057
\303\322\330\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\063\173\227\006\320\117\103\355\304\172\145\212\373\153\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\001\100\060\003\125\004\006\023\002\105\125\061
# Certificate "XRamp Global CA Root"

# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc.OU=www.xrampsecurity.com,C=US
# 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 (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A: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 "XRamp Global CA Root"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\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\069\040\101
\070\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\15\147\156\056\157\162\147\061\040\060
\036\060\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\15\147\156\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\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 Information

- **Issuer:** 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
- **MD5 Fingerprint:** A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
\073\331\075\334\017\004\010\212\254\003\027\031\144\364\132
\045\042\215\064\054\262\236\661\150\035\022\155\323\212\036\024\332
\304\217\246\342\043\205\325\172\015\275\152\340\351\135\354\354
\273\102\033\147\252\204\355\105\203\041\137\4\031\11\174\325\142
\076\372\362\305\055\323\375\352\241\45\022\003\091\000\012\243\201
\237\060\201\234\060\023\006\011\053\006\001\004\001\202\067\024
\002\004\000\060\360\044\000\100\106\013\006\003\125\035\017
\004\004\003\000\002\000\210\066\017\06\003\031\125\035\023\000\011\1377
\004\000\050\060\003\001\001\1377\060\035\050\060\031\25\035\016\004\026
\004\004\24\036\117\242\207\50\006\143\200\112\234\136\142\344\004\254
\215\134\265\351\326\030\060\066\006\003\125\035\037\004\057\060
\055\060\053\240\051\240\023\006\011\053\006\001\202\067\024
\143\162\154\056\170\162\141\155\161\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\053\205\206\110\206\367\015\001\001\005\005\000\003
\202\001\001\000\022\210\25\071\003\010\033\147\373\112\034\371\012
\140\013\241\332\115\227\142\371\044\123\047\327\202\144\116\220
\056\033\111\033\053\232\334\374\250\170\147\065\361\035\360\021
\275\267\110\343\020\366\015\357\077\322\311\266\252\125\244\110
\272\002\333\336\131\056\025\133\073\235\250\261\175\107\327\067\352
\137\151\166\022\066\273\037\327\224\121\004\106\040\243\054\155
\251\236\000\117\077\051\131\160\000\223\337\375\311\222\163\231\121
\144\236\347\053\334\403\422\105\322\272\131\167\353\150\061\231
\323\346\276\322\036\220\360\011\024\171\11\134\043\253\115\322\332
\041\037\112\531\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\127\435\133\246\267\100\364\262
\213\251\261\344\357\232\032\320\075\151\231\356\250\050\234\334
\074\263\360\262\021\234\317\174\100\346\335\347\031\175\242\330
\072\265\251\125\362\064\231\304\324\020\341\000\375\011\204\020
\073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311
\264\003\045\274

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,O=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,O=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 (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A: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 "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
\267345\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\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
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
CKA_CLASS CK_OBJECT_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
0601430606010130600110060003125000400600203020125123061
04010600370060031250004012023030124150145040107157
04010414144144141700401071621571651600540401111156
14305601606000570060031250004013023050107157040
14011414414414170040103154141163163040062040103145
16216415114615114311411641151571156040101165164150
1571621511641171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601430606011006000312500040060023002125123061
04010410370060031250004012023030124150145040107157
04010414144144141700401071621571651600540401111156
14305601606000570060031250004013023050107157040
14011414414414170040103154141163163040062040103145
16216415114615114311411641151571156040101165164150
1571621511641171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002001000

END

CKA_VALUE MULTILINE_OCTAL
0602020001000006020200235024000302001002002001000
06000150006001106206110020613670150010010050050060
143061013060011006000312500040060023002125123061
0600037006003125000401202303012410150145040107157040
140114144144141700401071621571651600540401111156
14305601606000570060031250004013023050107157040
0560610600570060031250004013023050107157040104
141144144170040103154141163163040062040103145162
164151146115114311411641151157156040101165164150
1621511641170060030620701506004060060062071061067
0600060020601320270115063064060066062071061067060
06600602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023
0020125112306104106003700600312500040120230301241050
060000600206001320270115063064060066062071061067060
06000602060132060143006101306001106060031250004006023

Open Source Used In Crosswork Common EMS Services 4.0.0 2607
\$01\$30\$A0\$50\$47\$157\$252\$067\$130\$367\$207\$046\$327\$330\$055\$366\$251
\$02\$72\$67\$037\$162\$066\$116\$246\$027\$077\$145\$230\$222\$333\$052\$156\$135
\$24\$376\$210\$340\$013\$336\$177\$345\$215\$025\$341\$353\$313\$072\$325\$342
\$02\$22\$42\$023\$055\$330\$216\$257\$137\$022\$075\$240\$010\$100\$095\$101\$266\$134
\$24\$51\$45\$070\$004\$105\$231\$036\$243\$140\$140\$164\$305\$101\$245\$162\$142
\$03\$31\$42\$305\$037\$157\$137\$032\$102\$276\$002\$212\$114\$52\$250\$256\$043\$030
\$15\$23\$47\$170\$003\$251\$115\$177\$020\$003\$372\$253\$132\$374\$241\$100\$244
\$31\$20\$31\$026\$376\$262\$310\$357\$136\$163\$015\$356\$167\$275\$232\$366\$171
\$23\$02\$07\$261\$007\$147\$242\$025\$015\$335\$240\$130\$306\$104\$173\$012\$076
\$14\$20\$05\$013\$72\$271\$0100\$71\$23\$030\$17\$021\$176\$070\$164\$305\$370\$377
\$26\$51\$51\$220\$127\$041\$164\$352\$227\$033\$257\$002\$001\$003\$043\$243\$2013\$00
\$06\$02\$021\$275\$069\$003\$350\$060\$003\$125\$035\$160\$004\$026\$004\$024\$002\$22\$32\$04
\$26\$03\$22\$221\$134\$021\$161\$263\$141\$1313\$07524113763355250152
\$32\$43\$060\$202\$125\$056\$006\$035\$125\$035\$143\$040\$021\$052\$060\$02101202
\$00\$00\$243\$232\$040\$260\$322\$221\$324\$114\$0211161263\$141313079241
\$37\$63\$355250\$152\$2324\$343\$241147244145060\$143\$061013\$060011
\$00\$60\$003\$125\$040\$06023\$0021251323661041060037\$0060003125
\$00\$40\$0212030\$0124150\$1450400101157040104141414414171
\$04\$01\$07162\$15716516054040111156143506601061060057
\$06\$00\$003\$125\$004013032305010715704010414144144171040
\$10\$3114\$141163163\$04062\$060040103145612614151146151143
\$14\$1161511157156040101165164150157162151164171202
\$00\$10000600140060031253052300400560003000011377
\$06\$0015000601115206011002636701500100105050000003
\$20\$02010100062113363262312207622137402232062410007
\$2124161672406306002413422036303670102460750112
\$0311371207200021115615113442266207606770764221134162
\$0703563140130401124303522405024406136611723041243127
\$3663450601113000324231413614233332241105163265277105
\$311144265325202022255043170151125172666115316317
\$11431206304335003424202522355213011156026311040345
\$211236315073332160367176231046400402141240452353156
\$1632053462330412351012154202016296073032014327020
\$0361512263537207015304017114125355356203505225370
\$126122162041620713530403522033552031352271560100274
\$353116046266163053344323366114376046161342141021
\$1641123771270320270711761050631711211510272400002
\$02214112253253211001262020114356304254020103246245
\$2360123252251422320153172102020350620143440532373
\$105346015237050234261271052132127255067017257035
177333275237

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\140\010\135\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
CKA_CLASS CK_OBJECT_CLASS 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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\150\061\103\060\001\110\006\003\125\004\006\023\002\125\123\061
\045\060\043\000\0123\025\004\012\023\034\123\164\141\162\146\151
\145\154\144\131\150\156\157\154\157\147\151\145\163
\054\040\011\111\156\143\012\023\034\123\164\141\162\146\151
\051\123\164\141\162\146\151\145\154\144\140\010\3\154\141\163\163
\040\062\040\010\3\145\162\164\151\146\151\143\141\164\151\157\156
\040\010\165\164\150\157\162\151\164\171

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\150\061\103\060\001\110\006\003\125\004\006\023\002\125\123\061
\045\060\043\000\0123\025\004\012\023\034\123\164\141\162\146\151
\145\154\144\131\150\156\157\154\157\147\151\145\163
\054\040\011\111\156\143\012\023\034\123\164\141\162\146\151
\154\144\140\0124\145\143\150\156\157\154\157\147\151\145\163\054
\040\011\111\156\143\056\061\062\060\060\060\003\125\004\013\023\051
\123\164\141\162\146\151\145\154\144\040\103\154\141\163\163\040
\060\024\010\3\145\156\151\146\141\164\151\157\156\040
\101\116\164\150\157\162\151\164\171\060\063\027\150\060\064\060
\066\062\071\061\067\063\071\061\066\132\027\150\063\064\060\066
\062\071\061\067\063\071\061\066\132\027\150\063\064\060\066
\062\071\061\067\063\071\061\066\132\027\150\063\064\060\066
\063\011\125\004\000\023\002\125\123\061\045\060\060\060\003\125\004\013\023\051
\123\023\034\123\164\141\162\146\151\145\154\144\000\124\145\143
\150\156\157\154\157\147\151\145\163\054
\062\060\060\060\000\03\125\004\013\023\051\123\164\141\162\146\151
\145\154\144\040\103\154\141\163\163\040\062\040\010\3\145\162\164
\151\165\141\164\161\145\151\157\156\040
\151\164\171\060\020\001\040\060\015\056\011\052\206\110\020\063\067
\015\001\010\100\050\000\03\202\000\120\000\101\000\010\000
\202\000\010\000\267\062\310\137\363\116\124\004\205\255\014\021
\144\337\316\115\357\310\003\030\020\077\241\253\373\074\246\237
\360\030\241\332\324\330\156\053\123\220\373\044\244\076\204\360
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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:e0:84:6e:17:8d:4f:ce: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
CKA_CLASS CK_OBJECT_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\030\23\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\011\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\030\23\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\022\002\237\240\003\002\001\002\002\020\014
\347\340\345\027\330\106\376\217\345\140\374\033\360
\015\006\011\052\206\110\206\367\015\001\005\005\000\060\145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\040\111\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\103\101
END
Open Source Used In Crosswork Common EMS Services 4.0.0 2613
# Trust for Certificate "DigiCert Assured ID Root CA"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0ce7:e0ce5:17:d8:46:fe:8e:56:0f: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
CKA_CLASS CK_OBJECT_CLASS 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"

END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

END
END

# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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

CKA_CLASS CK_OBJECT_CLASS 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\203\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\030\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\124\165\152\131\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
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_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\100\060\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\000\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\100\060\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\000\003\125\004\013\023
\020\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\103\059\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\200\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\125\124\003\002\000\100\233\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
\145\040\105\126\040\122\157\157\164\040\103\101
\060\066\061\161\061\060\060\060\060\060\060\060\060\013\120\157
\027\015\106
\061\161\161\161\106\161\060\060\060\060\060\060\060\132\060\154\061\103
\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\040\103\060\027\000\003\125\004\013\023\020\167\167\167
\156\144\151\147\151\143\145\162\164\056\143\157\155\061\053\060
\051\016\003\125\004\003\023\042\104\151\147\151\103\145\162\164
\104\011\101\147\150\040\101\163\163\165\162\141
\145\040\105\126\040\122\157\157\164\040\103\101
\006\011\052\200\110\206\367\015\001\000\100\005\000\003\202\000

Open Source Used In Crosswork Common EMS Services 4.0.0 2619
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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\024\070\032\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_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\010\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
# 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 After : Sat Oct 25 08:30:35 2036

CCA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CCA_TOKEN CK_BBOOL CK_TRUE
CCA_PRIVATE CK_BBOOL CK_FALSE
CCA_MODIFIABLE CK_BBOOL CK_FALSE
CCA_LABEL UTF8 "SwissSign Gold CA - G2"
CCA_CERTIFICATE_TYPE CK_CERificate_TYPE CKC_X_509
CCA_SUBJECT MULTILINE_OCTAL
0601050611030609010006000301150004000602250001030100061
02506002300600031250004012030141231671511631631123
151147156040101107061037060035006000312500040003023
0261231671511631631123151147156040107157154144040
1031010400055040107062
END

CCA_ID UTF8 "0"

CCA_ISSUER MULTILINE_OCTAL
0601050611030609010006000301150004000602250001030100061
02506002300600031250004012030141231671511631631123
151147156040101107061037060035006000312500040003023
0261231671511631631123151147156040107157154144040
1031010400055040107062
END

CCA_SERIAL_NUMBER MULTILINE_OCTAL
00201100002731000341033651361117260
END

CCA_VALUE MULTILINE_OCTAL
060202000527206020200324224000030020010020020110000
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for 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 After : Sat Oct 25 08:30:35 2036

CKA_CLASS CK_OBJECT_CLASS 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\022\132\073\372\210\055\032\377\370\315\063\223
END

CKA_ISSUER MULTILINE_OCTAL
\060\105\061\103\060\011\006\003\125\004\006\023\002\103\110\061
\025\060\023\060\003\125\004\012\203\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_MUSTVERIFY_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 After : Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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Open Source Used In Crosswork Common EMS Services 4.0.0 2628
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\103\060\011\100\060\033\125\004\006\023\002\103\110\061
\025\060\023\000\033\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\012\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\103\060\011\100\060\033\125\004\006\023\002\103\110\061
\025\060\023\000\033\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\012\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\000\100\002\002\010\117
\033\224\057\124\273\057\113\060\015\006\011\052\206\110\206\367
\015\001\100\011\005\000\060\107\061\013\060\011\006\003\125\004
\006\060\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\012\151\154\166\145\162\040\103\110\104\055\004\107\062\060
\036\027\015\060\060\060\010\060\062\065\060\070\063\062\064\066\132
\027\015\060\060\060\010\060\062\065\060\070\063\062\064\066\132
\107\061\103\060\011\006\003\125\004\004\060\233\023\021\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\013\101\040\055\004\107\062\060\202\020\024\020\060\015\006\011
\052\206\110\202\063\067\151\001\100\010\005\000\003\202\002\170\000
\060\020\002\012\002\202\002\001\000\304\361\120\177\333\170\061
\367\070\131\370\033\231\110\202\274\307\067\274\067\347\116\161\127
\113\132\245\163\035\134\156\230\256\003\127\256\070\067\103\057
\027\075\037\103\136\150\202\030\117\025\060\031\003\053\020\372\054
\171\120\366\350\021\150\271\125\362\004\104\247\071\137\137\040
\123\130\366\350\124\115\047\371\141\117\272\067\345\242\023\266\353
\141\076\320\154\332\134\063\378\372\136\055\035\264\236\240\106\133
\241\122\331\136\111\122\237\62\050\120\000\056\346\331\013\342\117
\273\334\225\067\374\221\135\062\065\042\321\103\072\116\047\205
\235\260\025\122\240\062\332\141\105\107\115\140\102\256\222\107\350
\203\132\120\130\351\121\213\271\135\241\134\035\231\112\037\066
PKCS #11

'11\311\155\251\014\014\170\252\170\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\330\003\255\101\060\363
\106\033\205\220\257\145\252\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\214\220\146\207\356\014\326\115\324\021
\164\013\152\276\013\030\337\243\125\127\211\137\61\123\135\266\133
\027\005\310\130\154\030\061\123\070\322\055\152\077\202\271\1215
\010\152\367\136\101\164\156\030\021\176\007\254\051\140\221\077
\070\312\127\020\015\275\060\057\307\024\253\346\101\240\332\256\005
\207\232\240\244\145\154\114\011\142\11\272\070\323\271\300\223
\212\060\372\125\345\232\153\025\001\116\147\252\332\142\126\076
\204\010\146\322\304\066\175\247\076\203\374\120\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\200\052\147\214\203\365\316\352\007\330\232\152
\036\354\344\012\273\052\114\353\011\140\071\136\121\142\330\056
\156
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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 After : Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS 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\010\07\06\01\03\06\00\01\10\06\00\03\125\00\04\006\023\002\103\110\061
\025\060\023\006\003\125\00\04\012\023\014\123\167\151\163\163\123
\151\147\156\040\01\01\07\06\01\04\06\03\07\06\00\03\125\00\04\003\023

Open Source Used In Crosswork Common EMS Services 4.0.0 2631
<table>
<thead>
<tr>
<th>Certificate &quot;SecureTrust CA&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
# 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

<table>
<thead>
<tr>
<th><strong>CKA_CLASS</strong></th>
<th>CK_OBJECT_CLASS</th>
<th>CKO_CERTIFICATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CKA_TOKEN</strong></td>
<td>CK_BBOOL</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td><strong>CKA_PRIVATE</strong></td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td><strong>CKA_MODIFIABLE</strong></td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td><strong>CKA_LABEL</strong></td>
<td>UTF8</td>
<td>&quot;SecureTrust CA&quot;</td>
</tr>
<tr>
<td><strong>CKA_CLASS</strong></td>
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<td><strong>CKA_PRIVATE</strong></td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td><strong>CKA_MODIFIABLE</strong></td>
<td>CK_BBOOL</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td><strong>CKA_LABEL</strong></td>
<td>UTF8</td>
<td>&quot;SecureTrust CA&quot;</td>
</tr>
</tbody>
</table>

---

\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\101\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

---

\060\110\061\013\060\011\100\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\110
END

**CKA_ID** UTF8 "0"

**CKA_ISSUER** MULTILINE_OCTAL
\060\110\061\013\060\011\100\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\110
END

**CKA_SERIAL_NUMBER** MULTILINE_OCTAL
\002\102\001\14\360\216\134\010\026\245\255\102\177\360\353\047\030
\131\130
END

**CKA_VALUE** MULTILINE_OCTAL
\060\202\003\270\060\202\002\240\240\003\002\001\002\002\020\014

---
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\123\352\055\251\242\321
END

CKA_ISSUER_MULTILINE_OCTAL
\060\110\061\103\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\010\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\010\131\101
END

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\200\024\14\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
# Certificate "Secure Global CA"
#
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number: 00603600027000031255004006023302125\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


# Certificate "Secure Global CA"
#
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number: 00603600027000031255004006023302125\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


# Certificate "Secure Global CA"
#
Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
Serial Number: 00603600027000031255004006023302125\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

# Trust for Certificate "Secure Global CA"

- **Issuer**: CN=Secure Global CA,O=SecureTrust Corporation,C=US
- **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

## Certificate Attributes

- **Class**: CKO_NSS_TRUST
- **Token**: CK_TRUE
- **Private**: CK_FALSE
- **Modifiable**: CK_FALSE
- **Label**: UTF8 "Secure Global CA"

## Certificate Details

- **Issuer**:

  - CN=Secure Global CA
  - O=SecureTrust Corporation
  - C=US

- **Serial Number**:


- **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

## Trust Details

- **Trust Server Auth**: CKT_NSS_TRUSTED_DELEGATOR
- **Trust Email Protection**: CKT_NSS_TRUSTED_DELEGATOR
- **Trust Code Signing**: CKT_NSS_MUST_VERIFY_TRUST
- **Trust Step Up Approved**: CK_FALSE

# Certificate "COMODO Certification Authority"
# Trust for 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:3c:3f: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

# CKA_CLASS CK_OBJECT_CLASS 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"

END
# Certificate "Network Solutions Certificate Authority"
#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# 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
CKA_CLASS CK_OBJECT_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
\003\125\004\003\023\036\103\117\115\117\104\117\040\103\145\162
\164\151\146\151\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

#
# Trust for Certificate "Network Solutions Certificate Authority"

# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# 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

CKA_CLASS CK_OBJECT_CLASS 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\303\162

CKA_CERT_MD5_HASH MULTILINE_OCTAL

\323\363\246\026\030\072\153\035\131\261\055\226\115\016\021\056

CKA_ISSUER MULTILINE_OCTAL

\060\142\061\013\060\001\106\000\031\125\004\006\023\002\012\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\153\040\123\157\154\165\164\162\157\156\163\040\114\056\114\056
\103\056\060\01\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
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_MODEL 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\102\060\160\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\013\101\040\114\151\155\151\164\145\144\061\103\063\03\125\004\003\023\024\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\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
CKA_TRUST_SERVER_AUTH CKA_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CKA_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CKA_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# 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
CKA_CLASS CK_OBJECT_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\120\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\11\151\147\150\164\040\50\143\051\040\62\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\120\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\11\151\147\150\164\040\50\143\051\040\62\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\307\364\124
# Trust for Certificate "OISTE WISeKey Global Root GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# 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
CKA_CLASS CK_OBJECT_CLASS 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\052\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\123\146\143\124\025\162\033\041\222\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\12\061\103\060\011\066\003\125\004\006\023\002\103\110
\061\020\060\010\006\000\003\125\000\004\012\023\000\007\127\111\123\145\113
\145\171\061\013\060\003\110\006\003\125\000\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\161\175\165\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\105\006\060\046\006\003\125\004\003\023\037\117\111
\123\144\105\040\127\111\123\145\111\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
CKA_CLASS CK_OBJECT_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
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CKA_VALUE MULTILINE_OCTAL
\020\011\000\376\334\343\300\017\311\110\377
END
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
\155\136\245\122\143\316\022\370\357\052\332\157\353\067\376\023
\002\207\323\307\313\073\076\042\153\332\141\056\177\324\162\075\335\060
\341\036\114\000\31\217\327\234\332\120\060\173\230\131\334
\175\306\271\014\051\114\241\063\242\353\147\072\145\204\323\226
\342\355\166\015\60\217\265\053\336\371\043\326\111\156\074\024
\265\036\203\065\036\120\032\030\121\152\160\104\002\142\331\325
\035\150\101\247\252\127\350\123\252\007\032\200\06\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\025\71\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\10\300\041\251\244\050\055\375\025\370\260\116\053\364\060
\133\041\374\021\221\064\276\101\135\71\325\227\165\377\227\225
\300\226\130\057\352\273\106\327\273\344\331\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# 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:a8:88:97:00:5e: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

CKA_CLASS CK_OBJECT_CLASS CK_OCERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKAIssuer MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# Trust for 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 (MD5): 1B:2E:00:CA:26:06:90:3D:AD:FE:6F:D3:6B: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 "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\100\003\125\004\006\023\002\124\127\061
\043\060\041\000\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
CKA_CLASS CK_OBJECT_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"
# Certificate "NetLock Arany (Class Gold) Fstanstvny"
#
# 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

# CKA_CLASS CK_OBJECT_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) Fstanstvny"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL
# CKA_ID UTF8 "0"
# CKA_ISSUER MULTILINE_OCTAL
# Trust for Certificate "NetLock Arany (Class Gold) Ftanstvny"

# 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


CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
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) Ftanstvny"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\124\153\251\003\320\006
\267\227\011\221
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\241\267\377\163\135\326\372\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\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\163\163\164\166\163
\241\156\171\153\151\141\144\303\263\153\040\050\013\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\050\061\065\060\063\060\003\125\004\003\014\054\116\145
\164\114\157\143\153\040\101\162\141\156\171\040\050\013\154\141
\163\163\040\107\157\154\144\051\040\106\305\221\164\141\156\143
\272\163\130\255\164\166\163\03\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
CKA_CLASS CK_OBJECT_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
# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# 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
CKA_CLASS CK_OBJECT_CLASS 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\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_CERT_MD5_HASH MULTILINE_OCTAL
\250\015\157\071\170\271\103\155\167\102\155\230\132\314\043\312
END
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_CRTIFICATE
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"

Open Source Used In Crosswork Common EMS Services 4.0.0 2665
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\223\362\165\344\314\327\362\352\046
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\130\006\010\130\006\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\23\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\000\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\000\1001
END

Open Source Used In Crosswork Common EMS Services 4.0.0  2667
# 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

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

CKA_TOKEN CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_PRIVATE CK_BBOOL CK_TRUE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Microsec e-Szigno Root CA 2009"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\020\202\061\101\302\060\003\125\004\006\023\002\110\125
\061\102\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\002\040\006\003\125\004\012\014\015\115\151
\13\162\157\163\145\143\040\114\164\144\056\060\104\070\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\103\107\060\103\006\011\052\020\110\206\367\101
\001\011\001\026\020\151\156\146\157\100\014\055\163\172\151\147
\156\157\056\150\165
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\103\302\060\011\006\003\125\004\006\023\002\110\125
\061\102\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\002\040\006\003\125\004\012\014\015\115\151
\13\162\157\163\145\143\040\114\164\144\056\060\104\070\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\103\107\060\103\006\011\052\020\110\206\367\101
\001\011\001\026\020\151\156\146\157\100\014\055\163\172\151\147
\156\157\056\150\165
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\062\201\202\061\103\302\060\011\006\003\125\004\006\023\002\110\125
\061\102\060\017\006\003\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\026\060\002\040\006\003\125\004\012\014\015\115\151
\13\162\157\163\145\143\040\114\164\144\056\060\104\070\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\103\107\060\103\006\011\052\020\110\206\367\101
\001\011\001\026\020\151\156\146\157\100\014\055\163\172\151\147
\156\157\056\150\165
END

CKA_VALUE MULTILINE_OCTAL
End

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\134\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
\206\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\021\060\017\060\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
# 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

CKA_CLASS CK_OBJECT_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
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\12\005\023\125\356\055\272\032\303\076\260\050
END
CKA_ISSUER MULTILINE_OCTAL
\060\014\06\010\04\06\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\016\056\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

CKA_CLASS CK_OBJECT_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\130\060\011\006\003\125\004\006\023\002\105\123\061\102\060\000\006\003\125\004\003\140\071\101\165\164\157\162\151\144\141\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\130\060\011\006\003\125\004\006\023\002\105\123\061\102\060\000\006\003\125\004\003\140\071\101\165\164\157\162\151\144\141\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\022\003\374\240\003\002\001\002\002\010\123\354\073\356\373\262\110\137
END

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\000\040\000\144\000\145\000\040\000\154\000\141\000\040\000\102
\000\157\000\0156\000\0141\000\0156\000\0157\000\0166\000\141\000\040
\000\064\000\067\000\040\000\0102\000\0141\000\0162\000\0143\000\0145
\000\0154\000\0150\000\0156\000\141\000\040\000\060\000\000\070\000\000\060
\000\061\000\067\000\060\000\0150\000\061\011\052\0260\110\0263\667\0150\001\001
\005\0005\000\003\002\002\002\001\000\027\0175\0240\371\0264\335\0305\0305
\135\255\113\044\265\021\000\253\0253\335\245\210\112\262\017\125\113
\053\127\214\073\345\061\335\376\030\0623\661\347\133\142\226\066
\062\020\323\054\245\066\167\327\343\104\266\300\021\052\020\000\271\0175
\152\156\174\233\322\259\374\030\326\243\346\144\051\174\321\341
\070\036\020\053\377\047\145\257\373\0260\253\030\056\161\204\345
\126\357\372\244\107\275\144\062\273\366\045\204\242\047\102\365
\040\260\302\023\020\020\025\027\210\022\000\52\32\104\341
\226\046\353\061\110\000\223\375\052\32\32\31\006\317\164\036\251\113
\325\020\053\371\171\064\222\076\056\104\350\366\217\117\217\065
\077\045\263\070\133\341\143\052\22\020\153\040\137\304\122\022\116\227
\054\050\252\254\235\22\336\110\362\243\146\333\302\322\03\225\246
\146\242\236\045\017\351\103\063\221\145\012\132\033\333\114\242\22
\335\257\303\116\016\037\046\136\015\334\263\215\354\325\201\160
\336\322\117\044\000\5\063\154\116\351\114\111\146\215\32\177\322
\013\040\101\101\110\076\120\000\34\137\320\176\144
\111\344\362\337\242\354\261\114\300\052\030\354\347\264\261\145\242
\304\242\361\120\364\252\160\007\143\264\270\332\073\114\372\100
\042\060\130\021\246\360\000\05\163\060\002\003\110\253\062\333\205
\335\333\335\352\242\166\200\163\175\365\034\034\105\215\347
\271\034\121\236\352\327\165\321\162\261\136\165\104\347\102\175
\342\217\153\175\334\231\274\075\030\050\352\020\223\153\051\114
\145\010\160\102\10\207\070\037\4\103\061\262\366\030\064\107\262\254
\373\042\000\63\130\366\355\027\107\034\137\146\271\132\032\242\332
\021\126\124\242\274\043\113\344\276\027\377\212\242\660\370\135\040
\112\234\137\347\275\150\173\145\362\025\036\322\072\25\105\351
\330\153\044\254\227\130\104\107\255\113\030\361\041\145\160\336
\316\064\140\250\100\361\363\074\244\303\050\043\214\376\047\063
\103\010\240\027\074\353\335\027\326\016\246\242\371\112\113\136
\026\110\364\262\274\310\214\222\305\235\237\254\162\066\274\064
\200\064\153\251\123\222\300\027\025\355\354\166\123\365\044\001
\214\263\042\350\113\174\125\306\235\372\243\024\273\145\205\156
\156\117\022\176\012\074\235\225
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\102\060\100\003\125\004\030\140\071\101\165\164\157\162\151
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Izenpe.com"
#
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Serial Number:00:b0:b7:5a:16:48:5f:f:e1:cb:5:8b: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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# 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

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS 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\103\060\001\1006\003\125\004\006\023\002\105\123\061
\024\060\002\220\006\003\125\004\012\014\013\111\132\105\116\120\105
\040\123\056\101\056\061\123\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END
Open Source Used In Crosswork Common EMS Services 4.0.0  2681

# 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

# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_ID UTF8 "0"
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT_MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# CKA_ISSUER_MULTILINE_OCTAL
# CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
#
\015\006\011\052:2066110:2063670:150011001:0050000003202
\0020010000220022:2570420653022430713600500036351265
\351170174110276077175105222136351332261031174026
\074237264133146236152:34730327113521035017255317
\0430173360045072:13631417245301265055254044322130
\00736324321715201400063350020010523251043320025
\3452161732462360675162023162063365252175306143037
\010364337600117704431705305412401113363420535155222
\30607111702635207411671721063241051521062503533165
\2021262472532401741500123063366235060360157047071
\044043052220375220051065362223373064245306367370
\35721401714211121742563233651243702152662321260207
\0262020720632531320420103670220272352056340107232
\26426510524300507333313340561051000733523341773350
\07335323123540463300652440603050722541272362633166
\2450401733710361120051420011246050165140227222015
\156076115067103015222025234030042315121231240051
\0320741372120620631330603072110571072300171243003
\30636636125433706236033112010323442342753566200024
\360321054271205365330243261310245041345034023227
\3560161275337051251357064123133323441520232040006
\2669062002304112225604232223432620411020323321100360
\0513113354012014134343202207314103230670112341022
\0122121712600750031711511133640640401752630643352
\216113144365076375263043147025015004270360055301
\0111121074262154025360245043327203164344345056311
\376203047102306253306236260320133070245233120336
\176030230625105073366171264350367032173006203373
\3202133322733072750302530101570742001531100077031
\0311272145212346276325134323066327357100122044140
\07014700409613542173363202306336271125363073061221
\132334265010025255166045012015173056207342014246
\006027404690201550672353543351702147174200305360331
\167110320

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\020\125\061\013\060\011\006\003\125\004\006\023\002\105\125
\061\013\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\043\165\162\145\156\164\040\141
\144\146\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\050\161\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\036\030\062\070\067\061\033\060\031\060\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\010\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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see
current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS 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"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\061\013\060\011\006\003\125\004\000\023\002\105\125
\061\103\060\010\006\003\125\004\000\023\020\115\141\144\162\151
\144\040\050\163\145\145\040\141\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\102\22\060\02\00\06\03\125\004\000\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\03\040\103\141\155\145\162\146\151\162\155
\141\040\123\056\010\056\061\047\060\045\006\003\125\004\000\032\023
\036\107\154\157\142\141\154\040\103\150\141\155\142\145\162\163
\15\147\156\040\122\157\157\164\040\055\040\062\060\060\070

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# 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

CKA_CLASS CK_OBJECT_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

END
# Trust for 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

**CAA**

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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

CKA_CLASS CK_OBJECT_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
\164\164\163\144\141\154\145\061\032\060\000\006\003\125\004\012
\023\021\107\157\104\141\144\141\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\041\141\144\141\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

#
\% Trust for 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE 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

CKA_CLASS CK_OBJECT_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
\002\001\000

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\200\006\000\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_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\200\006\000\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

#
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
\end{itemize}

\section*{CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE}

\section*{CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE}

\section*{CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE}
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\060\016\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\106\023\060\021\006\003\125\004\007\023\012\123\143\157\164\163\144\141\154\145\061\145\060\043\006\003\125\004\012\023\034\123\164\141\116\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\154\010\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
CKA_CLASS CK_OBJECT_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\122\155\124\162\165\163\164\040\013\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\122\155\124\162\165\163\164\040\013\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\016\037\060\035\006
\003\125\004\003\014\026\011\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
\161\060\061\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\061\060\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\146\060\022\001\042\060\015\052\206\110\206\367\015
\001\001\001\005\000\003\022\001\017\000\060\020\001\101\200\202
\001\001\000\003\066\033\117\147\007\053\241\125\365\006\042\131\037
\001\126\234\313\163\105\066\014\111\054\273\111\045\024\326\313\033
\267\253\054\117\306\101\062\224\127\372\022\247\133\016\342\217
\037\036\206\031\124\27\125\265\055\271\137\015\123\02\257\205\065


```
END

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\035\127\130\034\351\156\054
\307\262\170\0267
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\03\125\004\003\140\026
\101\146\146\151\162\155\124\162\165\163\164\040\013\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
CKA_CLASS CK_OBJECT_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\140\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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"

END

CKA_ISSUER CKMULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057
END

CKA_CERT_SHA1_HASH CKMULTILINE_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 CKMULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
\237\105\000\057
END

CKA_ISSUER CKMULTILINE_OCTAL
\060\066\041\011\000\000\03\125\004\006\023\002\125\123\061
\024\060\002\125\004\012\014\013\011\014\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
# Certificate "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040

CKA_CLASS CK_OBJECT_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\010\013\006\011\100\003\125\004\006\023\002\125\123\061\124\060\102\006\003\125\004\012\101\146\146\151\162\155\124\162\165\163\164\061\103\032\006\003\125\004\003\140\023\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\060\015\006\101\052\206\110\206\367\015\001\014\005\000\006\101\106\101\130\060\11\100\003\125\004\006\023\002\125\123\061\124\060\102\006\003\125\004\012\101\146\146\151\162\155\124\162\165\163\164\061\103\032\006\003\125\004\003\140\023\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155\060\015\006\101\052\206\110\206\367`
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# 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

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\120\036\143\117\175\152\006\145
\046\062\050\047
end
cka_cert_md5_hash multiline_octal
\304\135\016\110\266\254\050\047\124\162\165\163\164\061\034\060\032\060\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\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

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\105\061\101\060\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\060\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_trust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\125\231\342\276\023\253\246\135\352\115
END
CKA_ISSUER MULTILINE_OCTAL
  \060\105\061\013\060\001\100\003\125\004\006\023\002\125\123\061
  \012\006\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 After: Mon Dec 31 12:07:37 2029


# Trust for 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 After: Mon Dec 31 12:07:37 2029

CKA_CLASS = CK_OBJECT_CLASS, 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
CKA_CERT_MD5_HASH = MULTILINE_OCTAL
CKA_ISSUER = MULTILINE_OCTAL
CKA_SERIAL_NUMBER = MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH = CK_TRUST, CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION = CK_TRUST, CKT_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 After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_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\1013\060\0111\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\0103\101\061\1\025\060\050\006\033\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\0103\145\162\164\151\146
\151\143\141\164\151\157\156\040\0101\165\164\150\157\162\151\164
\171
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\137\061\1013\060\0111\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\0103\101\061\1\025\060\050\006\033\125\004\003\014\041
\124\127\103\101\040\122\157\157\164\040\0103\145\162\164\151\146
\151\143\141\164\151\157\156\040\0101\165\164\150\157\162\151\164
\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

CKA_VALUE MULTILINE_OCTAL
\060\202\003\173\060\202\002\143\240\003\002\001\002\002\001\001
\060\015\006\011\1\052\206\11\1\206\367\015\001\001\1\005\005\000\060
\137\061\1013\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\1127\101\116\055
\103\101\061\1\206\060\016\006\003\125\004\013\014\007\122\157
\164\040\0103\101\061\1\052\206\050\006\033\125\004\003\014\011\124
\172\103\101\040\122\157\157\164\040\0103\145\162\164\151\146
\151\143\141\164\151\157\156\040\0101\165\164\150\157\162\151\164
\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
# Trust for 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 After: Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS 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\140\011\124\101\111\111\127\010\116
\055\013\010\061\020\060\016\006\003\125\004\013\014\007\122\157
\157\164\040\010\031\010\061\052\060\050\006\003\125\004\003\014\041
\124\127\103\010\040\122\157\157\164\040\013\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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0  2717

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\060\013\060\001\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\010\101\061
\040\060\036\006\011\052\206\110\020\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\060\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\010\101\061
\040\060\036\006\011\052\206\110\020\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\017\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\137\377

END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\12\060\020\031\162\240\003\002\001\002\002\020\017
\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377\377
\015\006\011\052\206\110\020\367\015\001\010\005\000\000\060\137
\061\013\060\011\006\003\125\004\006\023\012\116\114\061
\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\010\101\061
\040\060\036\006\011\052\206\110\020\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
# 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
# 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
CKA_CLASS CK_OBJECT_CLASS 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
\076\230\365\077\101\272\116\313\067\015\272\146\230\361\135\313
\237\134\367\124\066\202\153\054\274\023\147\122\107\023
\131\43\010\242\237\312\133\60\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\363\353\160\275\153\035\001\145\274\007
\374\317\022\020\104\242\054\256\240\275\072\340\242\052\330\131\351
\051\133\030\065\244\254\021\137\031\265\265\033\377\042\121\134
\306\172\344\027\357\040\251\247\364\077\255\212\247\232\004\045
\235\016\312\067\346\120\037\51\142\023\160\333\174
\162\275\342\010\066\257\043\057\142\345\312\001\332\163\003\331
\020\40\054\206\061\014\306\060\066\007\220\172\261\037\147\130\304
\073\130\131\121\126\020\142\141\120\263\330\206\313\150\243\304\012
\347\151\113\040\316\031\036\126\113\225\251\043\150\330\060\330
\303\353\260\125\121\131\345\375\053\270\365\273\021\237\123\124
\366\064\031\124\171\011\066\132\141\027\045\027\013\202\230\163
\014\167\164\030\325\015\037\250\022\143\074\247\124\161\107\056
\054\032\175\111\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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\012\244\325\314\272\264\243\233\131\343\346\001\133\125\331\116
END
CKA_ISSUER MULTILINE_OCTAL
\060\137\061\013\060\011\100\003\125\004\006\023\002\116\114\061
\022\206\020\006\003\125\004\012\230\111\104\151\147\151\116\157
\164\141\162\061\032\060\030\006\031\250\004\003\023\022\104\151
\147\151\116\157\164\141\162\040\122\157\157\164\040\031\101\061
\040\060\036\006\011\052\206\110\206\367\015\001\011\001\026\021
# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020

cka_class ck_object_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 Distrusted DigiNotar PKIoverheid G2"
cka_certificate_type ck_certificate_type CKC_X_509
cka_subject multiline_octal

cka_serial_number multiline_octal

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

cka_id utf8 "0"
cka_issuer multiline_octal

cka_serial_number multiline_octal
# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xfffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020

CKA_CLASS CK_OBJECT_CLASS 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 Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
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

COD_CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
COD_CKA_TOKEN CK_BBOOL CK_TRUE
COD_CKA_PRIVATE CK_BBOOL CK_FALSE
COD_CKA_MODIFIABLE CK_BBOOL CK_FALSE
COD_CKA_LABEL UTF8 "Security Communication RootCA2"
COD_CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
COD_CKA_SUBJECT MULTILINE_OCTAL
COD_CKA_ISSUER MULTILINE_OCTAL
COD_CKA_SERIAL_NUMBER MULTILINE_OCTAL
COD_CKA_VALUE MULTILINE_OCTAL

END
COD_CKA_ID UTF8 "0"
COD_CKA_ISSUER_MULTILINE_OCTAL
COD_CKA_SERIAL_NUMBER MULTILINE_OCTAL
COD_CKA_VALUE MULTILINE_OCTAL

END
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
# 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
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

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

CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL

END
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\132
END

# Trust for 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
# 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
CKA_CLASS CK_OBJECT_CLASS 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\020\136\061\010\13\060\001\10\060\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\14\164\141\154\141\156\141\140\144\145\040\103
\145\162\164\151\14\143\141\143\151\157\040\050\116\111\116
\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\161\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\164\165\162\141\162\162\145\154\040\050\143\051\060\063\016\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\14\143\141\143\151\157\040\050\131\141\164\141
\154\141\156\145\163\061\107\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\v02\020\356\053\075\353\324\041\136\024\250\142\254\004\363\335
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hellenic Academic and Research Institutions RootCA 2011"
#
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_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 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\225\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\014\060\012\006\003\125\004\012\023\073\110\145\154\151\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\114\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\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\225\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\014\060\012\006\003\125\004\012\023\073\110\145\154\151\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\114\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\061
# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031

CKA_CLASS CK_OBJECT_CLASS 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 2011"

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\005
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

# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After : Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"
CKA_ISSUER MULTILINE_OCTAL
\060\013\060\001\106\153\151\006\003\125\004\000\006\023\002\125\123
\061\021\010\013\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\060\012\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\063\060\061\006\000\125\004
\003\023\052\124\162\165\163\164\167\141\166\145\040\117\162\147
\141\156\151\172\141\164\151\157\156\040\111\163\163\165\151\156
\147\040\103\101\054\040\114\145\166\145\154\040\062\061\037\060
\035\006\011\150\206\110\026\367\015\001\011\001\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\056\143\157\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\111\322\006
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 "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

Open Source Used In Crosswork Common EMS Services 4.0.0 2735
# Not Valid After : Sun Sep 22 11:22:02 2030
CKA_CLASS CK_OBJECT_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\010\006\003\112\050\004\006\023\020\002\111\111\124\061\016\060\014\006\003\112\050\004\007\014\005\015\151\154\141\156\061\043\060\041\006\003\112\050\004\012\014\032\010\143\164\141\154\151\
\163\040\123\056\160\056\101\056\057\060\063\063\065\070\065\062\060\071\006\067\061\047\060\045\006\003\012\050\004\003\014\036\101\143\164\141\154\151\163\040\010\011\106\164\105\015\156\164\151\143\
\141\164\151\157\156\040\112\157\157\164\040\103\101\00601530610130600110060031125000400060230021111124061\016060101400600311250004000701400511511511541411156061\0430600140060031125000400120140321011431641411154151\16304012305616005610105605706006306365070065062\060071006606706104706004500600311250004003014036101\1431641411154151163040101106516410511561641511143\14116415115715604011211571157164040103101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\0601530610130600110060031125000400060230021111124061\016060101400600311250004000701400511511511541411156061\043060014006003112500040120140321011431641411154151\16304012305616005610105605706006306365070065062\060071006606706104706004500600311250004003014036101\1431641411154151163040101106516410511561641511143\14116415115715604011211571157164040103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314\060\015\006\011\052\206\110\020\06367\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125004\006\023\002\111\124\061\016\060\014\006\003\112\050\004\007\014\005\015\151\154\141\156\061\043\060\041\006\003\112\050\004\003014036101\1431641411154151163040101106516410511561641511143\14116415115715604011211571157164040103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314\060\015\006\011\052\206\110\020\06367\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125004\006\023\002\111\124\061\016\060\014\006\003\112\050\004\007\014\005\015\151\154\141\156\061\043\060\041\006\003\112\050\004\003014036101\1431641411154151163040101106516410511561641511143\14116415115715604011211571157164040103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314\060\015\006\011\052\206\110\020\06367\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125004\006\023\002\111\124\061\016\060\014\006\003\112\050\004\007\014\005\015\151\154\141\156\061\043\060\041\006\003\112\050\004\003014036101\1431641411154151163040101106516410511561641511143\14116415115715604011211571157164040103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\227\102\304\343\314\060\015\006\011\052\206\110\020\06367\015\001\001\013\005\000\060\153\061\013\060\011\006\003\125004\006\023\002\111\124\061\016\060\014\006\003\112\050\004\007\014\005\015\151\154\141\156\061\043\060\041\006\003\112\050\004\003014036101\1431641411154151163040101106516410511561641511143\14116415115715604011211571157164040103101
END
# 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:11:97:42:8e: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

CKA_CLASS CK_OBJECT_CLASS 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

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\166\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\060\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\010\143\164\141\154\151
\163\040\123\056\160\056\010\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\151\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\122\102\034\131

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Buypass Class 2 Root CA"
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040
CKA_CLASS CK_OBJECT_CLASS 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

CKA_CLASS CK_OBJECT_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\001\010\006\000\033\125\004\006\023\000\021\116\117\061\163\040\010\154\141\163\163\040\012\157\157\164\040\103\101
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\001\010\006\000\033\125\004\006\023\000\021\116\117\061\163\040\010\154\141\163\163\040\012\157\157\164\040\103\101
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
CKA_VALUE MULTILINE_OCTAL
\060\116\061\013\060\001\010\006\000\033\125\004\006\023\000\021\116\117\061\163\040\010\154\141\163\163\040\012\157\157\164\040\103\101

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# 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

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Buypass Class 3 Root CA"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
# CKA_ISSUER MULTILINE_OCTAL

END
# 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 After: Sat Oct 01 23:59:59 2033
CKA_CLASS CK_OBJECT_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\001\11\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\160\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\001\11\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\160\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
# 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 After : Sat Oct 01 23:59:59 2033

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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\252\276
\021\343\201\032

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\200\04\006\23\002\104\105
\061\053\060\051\006\003\125\200\04\124\212\240\55\123\171\163
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

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
Sunucu Sertifikas.., Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\175\060\073\006\003\125\004\003\014\064\124\303
\123\144\114\112\121\125\121\124\100\105\154\145\153\164\162\157
\156\151\153\040\123\165\156\151\143\165\040\123\145\162\164\151
\146\151\153\141\163\304\261\104\110\151\172\155\145\164\154\145
\162\151\156\101\136\006\110\006\003\125\004\006\023\002\124\122\061
\136\060\134\006\003\125\004\012\124\125\124\303\234\122\113\124
\122\125\123\124\040\102\151\154\147\151\104\304\260\154\145\164
\151\135\237\151\155\040\166\145\040\102\151\154\151\305\237\151
\155\140\107\033\274\166\145\156\151\154\130\304\237\151\040\110\151
\172\155\145\164\154\145\162\151\104\101\056\305\236\056\040\050
\143\051\040\113\141\163\034\261\155\040\040\062\060\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022

# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik Sunucu Sertifikas.., Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=ileti@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez Bankası,L=Lefkosa,ST=Lefkosa,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021

CKA_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "D-TRUST Root Class 3 CA 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
CKA_CLASS CK_OBJECT_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\0011\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\104\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\0011\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\104\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\150\006\011\105\220\101\206\367\015\001\001\13\005
\000\006\011\150\061\013\060\0011\006\003\125\004\006\023\002\104\105\061
\061\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\163\164\040\107\155\142\111\061\104\060\045\006\003\125\004\003\014
\014\036\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
\060\036\027\150\060\071\106\101\106\065\060\070\063\065\050\70
\132\027\015\062\071\106\106\106\065\060\070\063\065\060\132
\060\115\061\013\060\0011\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\111\061\104\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
\020\020\014\060\150\006\011\052\206\110\206\367\015\001\001
\005\000\003\020\200\017\000\060\200\200\012\000\200\200\010\000
\323\262\112\123\171\172\107\357\165\233\043\372\072\057\326\120\105
\121\065\072\060\153\333\376\333\000\150\250\340\003\021\13\007
\120\010\237\115\112\150\224\065\263\123\321\224\143\247\004\102
\257\336\121\170\354\052\075\363\110\110\120\076\012\337\106\125
\123\047\155\303\020\115\015\221\122\103\330\207\340\135\116\066
\265\041\132\137\071\100\000\137\133\176\142\143\206\103\251\100
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# 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
CKA_CLASS CK_OBJECT_CLASS 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\125\107\254\234\211\065\220\067\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\013\154
\141\163\163\040\063\040\013\101\040\062\040\062\060\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\363
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
# # Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After: Mon Nov 05 08:50:46 2029
CKA_CLASS CK_OBJECT_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\206\013\060\001\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\140\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\012\121\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\104\062\040\105\126\040\062\060
\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\206\013\060\001\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\140\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\012\121\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\104\062\040\105\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\203\364
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\013\060\022\003\053\240\003\002\001\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\140\014\104\055\124\162\165
\163\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003
\014\054\110\055\124\122\125\123\124\012\121\157\157\164\040\103
\154\141\163\163\040\063\040\103\101\104\062\040\105\126\040\062
\060\060\071\060\036\027\015\060\071\061\016\016\065\060\070\065\060
\060\064\060\011\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\140\014\104\055\124
\162\165\163\164\040\107\155\142\110\061\052\060\050\006\003\125
\004\003\014\054\110\055\124\122\125\123\124\012\121\157\157\164
\104\010\03\154\141\163\163\040\063\040\103\101\104\062\040\105\126
\040\062\060\060\071\060\020\001\104\020\060\015\006\011\052\206\110
\206\367\015\001\001\001\005\000\003\012\020\011\017\000\060\202\001
\012\020\012\001\001\000\003\361\120\040\064\160\272\057\267\060\240
\126\275\174\004\137\276\142\274\231\375\202\227\322\172\012\147
\226\070\001\113\066\020\116\225\042\113\123\121\153\322\025\055\347\005
\374\031\163\042\267\216\230\000\027\040\075\254\241\154\373\326
\171\045\113\125\060\314\044\332\210\076\051\270\017\011\323\064
# 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

# 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:b0:8ac:1:63
# 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

CKA_CLASS CK_OBJECT_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\13\060\01\100\006\003\125\004\006\023\002\123\113\061
\023\060\02\100\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\013\010\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\13\060\01\100\006\003\125\004\006\023\002\123\113\061
\023\060\02\100\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\013\010\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\02\00\020\051\015\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\000\010\13\005\000\060\222\061\13\060\011\060\003\125
\004\006\023\020\012\113\113\061\023\060\021\006\003\125\004\007\023
\012\012\162\141\164\151\163\154\141\166\141\061\023\060\021\006
\003\015\25\004\012\023\012\104\151\163\151\147\040\141\056\163\035
\061\013\060\027\200\006\003\125\004\003\023\202\103\101\040\104\151
\163\151\147\040\122\157\157\164\040\122\062\206\003\027\015\061
\062\060\067\061\107\106\071\061\065\063\060\132\027\015\064\062
\060\067\061\071\060\071\106\065\063\060\132\060\122\061\013\060
\011\060\003\125\004\006\023\020\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
\020\020\020\060\150\060\11\052\206\020\062\367\015\000\010\001
\005\000\000\202\002\017\000\060\202\020\012\020\020\020\010\000
\242\243\304\000\011\326\205\135\055\155\024\366\302\303\163\323
```
# 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
CKA_CLASS CK_OBJECT_CLASS 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"
```
# 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
CKA_CLASS CK_OBJECT_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
\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\011\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
CKA_CLASS CK_OBJECT_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
\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\011\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
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE 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 After: Tue Dec 31 15:59:59 2030

# 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 After: Tue Dec 31 15:59:59 2030

# Certificate "TWCA Global Root CA"
Open Source Used In Crosswork Common EMS Services 4.0.0
# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA, OU=Root CA, O=TAIWAN-CA, C=TW
# Serial Number: 3262 (0xcbe)
# Not Valid After: Tue Dec 31 15:59:59 2030
# Certificate "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1, O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1, O=TeliaSonera
CKA_CLASS CK_OBJECT_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\026\024\036\056\010\036\173\071\020\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\036\056\010\036\173\071\020\162\372\213\315\226
\060\015\006\011\052\206\110\206\036\015\001\001\005\005\000\006
\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\010\060\060\065\060\013\020\272\015\063\062\061\060\061
\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\061\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\061\067\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\061\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\040\122\157
\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
\061\060\020\002\042\026\060\015\006\011\052\206\110\206\036\027\015\060\067\061\060
\061\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\040\122\157
\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
\061\060\020\002\042\026\060\015\006\011\052\206\110\206\036\027\015\060\067\061\060
\061\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\061\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
\061\060\020\002\042\026\060\015\006\011\052\206\110\206\036\027\015\060\067\061\060
\061\070\061\016\062\060\060\065\060\013\020\272\015\063\062\061\060\061
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# 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

CKA_CLASS CK_OBJECT_CLASS 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\132\255\206\233\301\116\152\222\360\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\060\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\013\101\040\166\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
Open Source Used In Crosswork Common EMS Services 4.0.0

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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-Tugra EBG Bilişim 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-Tugra EBG Bilişim 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
CKA_CLASS CK_OBJECT_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\021\062\061\013\060\001\110\006\003\125\004\006\023\002\124\122
\061\017\060\015\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\1040
\166\145\040\110\151\172\155\145\164\154\145\162\151\1040\101\056
\305\236\056\061\046\060\046\006\033\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\106\105\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\164\040\101\165\164\150
\157\162\151\164\171

END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\021\062\061\013\060\001\110\006\003\125\004\006\023\002\124\122
\061\017\060\015\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\1040
\166\145\040\110\151\172\155\145\164\154\145\162\151\1040\101\056
\305\236\056\061\046\060\046\006\033\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\106\105\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\164\040\101\165\164\150
\157\162\151\164\171

END
# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tugra EBG Bilişim 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-Tugra EBG Bilişim 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142
\217\303\122\071
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
END
CKA_ISSUER_MULTILINE_OCTAL
\060\201\262\061\101\13\060\011\006\003\125\004\006\023\002\124\122
\061\107\060\150\060\003\125\004\007\014\006\101\116\151\141\162
\141\061\100\060\076\006\003\125\004\120\146\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\215\115\114\151\130\237\151
END
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040\166\145\040\110\151\172\151\154\145\141\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\164\145\162\151\157\156\040\101\165\164\150\157\162\151\164\171\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\123\131\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 After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF: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 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\0201\202\061\013\060\001\110\006\003\125\004\006\023\002\104\0105\061\053\060\005\100\060\003\125\004\012\014\042\124\055\123\171\163\164\145\155\163\040\0105\151\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\0103\145\156\164\145\162\061\045\060\004\0106\003\125\004\003\014\034\124\055\124\145\135\145\123\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141\163\163\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

# 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 After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF: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 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\0201\202\061\013\060\001\110\006\003\125\004\006\023\002\104\0105\061\053\060\005\100\060\003\125\004\012\014\042\124\055\123\171\163\164\145\155\163\040\0105\151\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\0103\145\156\164\145\162\061\045\060\004\0106\003\125\004\003\014\034\124\055\124\145\135\145\123\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141\163\163\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\002\001\001
END

# 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 After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF: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 "T-TeleSec GlobalRoot Class 2"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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

CKA_CLASS CK_OBJECT_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
\06\00\04\06\10\13\06\00\01\06\00\03\12\05\00\04\00\06\02\02\10\04\10\05
\06\1\05\06\00\05\10\06\00\03\12\05\00\04\01\02\10\04\10\04\12\04\05\12\17\11\16\13\16\14\15\04\00\04\01\13\04\02\06\12\04\05\12\13\17\11\16\13\16\14\15\15\05\16\3\04\01\24\16\15\16\14\04\00\10\03\15\14\15\16\14\15\16\12\06\10\04\06\00\03\12\05\00\04\00\03\01\04\03\12\04\05\12\14\15\14\15\12\14\13\04\01\12\15\17\15\15\07\14\21\14\11\5\12\15\17\16\04\04\10\03\15\14\11\16\13\16\04\06\02
END
CKA_ID UTF8 "0"
\377\004\004\003\002\001\206\060\015\006\011\052\206\110\206\367
\015\001\001\013\005\000\000\03\202\011\001\000\046\167\064\333\224
\11\02\06\052\101\235\054\040\065\006\220\014\030\042\142\254\013\124\270
\037\27\173\32\30\07\01\344\372\076\173\26\075\116\35\237\043
\275\22\363\153\134\357\356\375\100\246\337\241\223\241\012\206
\254\357\043\02\17\01\27\5\170\367\03\13\30\04\40\06\13\04\00\001
\246\272\02\32\30\03\047\334\330\117\01\7\3\03\01\14\133\377\23\10\17
\016\22\115\316\026\341\041\174\330\046\307\107\26\246\173\130
\162\16\17\6\27\23\4\11\35\2\15\07\03\1\25\1\5\15\24\1\26\3\01\135
\111\36\6\26\01\7\07\26\3\32\144\334\045\317\246\333\35\232\134
\231\24\30\5\10\336\374\356\332\235\2\6\132\01\5\04\13\267\302
\265\02\35\170\12\17\3\1\20\26\3\5\365\35\333\30\27\5\35\132
\324\36\01\26\04\25\1\04\15\124\30\6\25\2\5\27\5\20\23\6\3\15\203
\226\15\01\7\2\16\1\2\1\1\1\3\4\1\0\3\5\2\0\1\3\15\00\10\3\14\151
\236\35\02\36\1\0\2\3\6\1\0\4\0\6\2\46\1\7\23\4\2\0\1\2\16\1\0\7\3\3\3\344
\132\24\4 \32\333\30\5\15\3\0\6\3\3\4\1\4\0\177\27\1\3\6\1\1\7\1\0\42\22\357
\05\2\26\7\3\0\0\2\6\7\0\3\1\33\1\0\1\7\5\2\6\1\0\6\1\1\0\1\0\2\6\2\0\2\7\2\1\40
\035\36\2\37\6\0\1\1\2\1\2\6\3\6\0\2\0\7\1\3\2\4\7\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

CKA_CLASS CK_OBJECT_CLASS 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\030\53\361\324\346\267\152\106\113\125\006\002\254\041
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\27\130\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE_OCTAL
\060\074\061\036\060\003\4\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\015\060\001\13\006\003\125\004\006\023\002\104\105

Open Source Used In Crosswork Common EMS Services 4.0.0  2780
# Certificate "QuoVadis Root CA 1 G3"

# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# 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):

CKA_CLASS CK_OBJECT_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\106\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\025\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\020\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
END

cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false

# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3, O=QuoVadis Limited, C=BM
# 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):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
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\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
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# 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):

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\127\233\065\165\070\002\005\000\341

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\110\006\003\125\004\006\023\002\010\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\104\127\064\044\133\201\121\123\065\362\316\270\053\073
\133\247\046\360\165\050

END
# Certificate "QuoVadis Root CA 3 G3"

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

CKA_CLASS CK_OBJECT_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
06011006011100060111006003112500040060023002102115001
031106002700060003112500401202302011211651571126141144
1511630400114115115551511641451444061036060034006003
12500400030230251121165157112614114411511630401221157
157164040103101040063040107063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
06011006011100060111000600031125000400600230021102115001
0311060027000600031125000401202302011211651571126141144
151163040114115115551511641451444061036060034006003
12500400030230251121165157112614114411511630401221157
157164040103101040063040107063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002024056365233002050124733311723773325243251356275
0032403170221152035

END

CKA_VALUE MULTILINE_OCTAL
06020200051140060022020031110240000030200100020020240065
36523300205024733311723773325243251356275003240317
022152035106011005220611202063670150011001013
00500006011006011013060111100060031250004000060230020102
1150153103106002700060003112500401204202011211651571126
1411144115116304011411511155511511641451444061036060034
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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# Certificate "DigiCert Assured ID Root G2"

# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
# Certificate Class: CK_OBJECT_CLASS
# Token: CK_TRUE
# Private: CK_FALSE
# Modifiable: CK_FALSE
# Label: "DigiCert Assured ID Root G2"
# Certificate Type: CK_CERTIFICATE
# Subject:
0020240503652333020501247333317233773252432513562275
003240317022152035

# Trust Server Authentication: CK_TRUST
# Trust Email Protection: CK_TRUST
# Trust Code Signing: CK_TRUST
# Trust Step Up Approved: CK_FALSE

# 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\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\122\157\157\164\040\103\101\040\063\040\107\063\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275

# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327\317\042\056\175\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\122\157\157\164\040\103\101\040\063\040\107\063\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275

# 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\122\157\157\164\040\103\101\040\063\040\107\063\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275

# CKA_TRUST_SERVER_AUTH CK_TRUST
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST
# CKA_TRUST_CODE_SIGNING CK_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS
# Token: CK_TRUE
# Private: CK_FALSE
# Modifiable: CK_FALSE
# Label: "DigiCert Assured ID Root G2"

# Certificate Type: CK_CERTIFICATE
# Subject:

# Fingerprint (SHA-256):

# Certificate Class: CK_OBJECT_CLASS
# Token: CK_TRUE
# Private: CK_FALSE
# Modifiable: CK_FALSE
# Label UTF8 "QuoVadis Root CA 3 G3"

# Certificate Type: CK_CERTIFICATE
# Subject:

# Fingerprint (SHA-256):
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

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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_MD5_HASH MULTILINE_OCTAL
\222\070\271\370\143\044\202\145\054\127\063\346\376\147\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\160\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\020\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_CLASS CK_OBJECT_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\160\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\044\060\042\020\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
# Certificate "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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
CKA_CLASS CK_OBJECT_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\030\010\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\160\056\144\151\147\151\143\145\162\164\056\143\157

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\215\035\052\344\204\060\012\006\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\014\000\002\060\045\244\201\105\002\153\022\113
\165\164\117\310\043\343\160\362\165\162\336\174\211\136\0317\221
\162\141\126\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\134\072\231\134\266\243\073\233\306\437\203\366\332\202\222\161
\136\222\102\247\335\244\156\222\314\062\326\365\041\146\307\057
\352\222\143\152\145\105\222\225\001\264
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Global Root G2"
#
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_ID UTF8 "0"
END

CKA_ISSUER MULTILINE_OCTAL
\060\141\060\101\131\060\111\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
\201\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\003\060\003\125\004\030\023\027\041\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\144\261\035\011\372\345
END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\216\060\020\002\166\240\003\002\000\100\002\002\020\003
\072\361\134\247\021\125\120\027\150\144\261\035\011\372\345\060
\015\006\011\052\206\110\206\137\150\100\101\13\005\000\060\141
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\0125\004\006\023\022\125\123\061
\025\060\023\006\003\0125\004\012\023\014\014\151\147\151\103\145
\162\164\040\011\115\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\151\162\164\056\143\157
\155\061\040\060\003\060\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\000\03\072\361\346\024\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
# Certificate "DigiCert Global Root G3"

# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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\103\060\011\100\063\003\125\004\006\023\002\125\123\061\025\060\023\002\003\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\025\004\013\023\020\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\151\142\141\154\040\122\157\157\164\040\107\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\141\061\103\060\011\100\063\003\125\004\006\023\002\125\123\061\025\060\023\002\003\012\023\014\104\151\147\151\103\145\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023\020\167\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151\103\145\162\164\040\107\154\151\142\141\154\040\122\157\157\164\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\05\125\126\274\362\136\244\065\065\303\244\017\325\253\105\162

END

CKA_VALUE MULTILINE_OCTAL
\060\202\020\000\05\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
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\032
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\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\167\141\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\060\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
# 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):
CKA_CLASS CK_OBJECT_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 CKCERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061

# Trust for "DigiCert Trusted Root G4"

## Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US


## 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):


## Fingerprint (SHA1):


## CKA_CLASS CK_OBJECT_CLASS 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\131\163\242\003\175\077\310\072\115\175\
\167\135\005\344

## CKA_CERT_MD5_HASH MULTILINE_OCTAL

\170\362\174\252\140\037\057\264\353\311\067\272\123\056\165\111

## CKA_ISSUER_MULTILINE_OCTAL

\060\142\061\013\060\001\010\060\003\012\050\004\006\023\002\012\013\013\061\025\004

## CKA_ISSUER_MULTILINE_OCTAL

\061\142\061\103\060\001\006\003\125\004\006\023\002\012\013\006

## CKA_ISSUER_MULTILINE_OCTAL

\025\060\023\006\003\125\004\012\023\014\010\151\015\151\103\145

## CKA_ISSUER_MULTILINE_OCTAL

\162\140\040\111\156\143\061\031\060\027\006\003\125\004\013\023

## CKA_ISSUER_MULTILINE_OCTAL

\020\167\167\161\056\144\151\147\151\143\145\162\164\056\143\157

## CKA_ISSUER_MULTILINE_OCTAL

\155\061\041\060\037\006\003\125\004\003\023\030\014\151\147\151

## CKA_ISSUER_MULTILINE_OCTAL

\020\167\161\056\144\151\147\151\143\145\162\164\056\143\157

## CKA_ISSUER_MULTILINE_OCTAL

\155\061\041\060\037\006\003\125\004\003\023\030\014\151\147\151
# Certificate "COMODO RSA Certification Authority"
#
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# 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):

CKA_CLASS CK_OBJECT_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
0602012050610130600110066003112500400602300211071102
0610330600310060031125004010023022110711621451141164
14511621040115114115014311501451163116414511621061102060
0160060031125004007002300711231114115411661571162144061
0320600300600031125004012023021103111711511171041117
04010301040114115115511511641451144061105306010511006
0031125004003023042110311711151117110411704011221231101
04010311451162164115114311411164115115711560401101
116511641501157116211511641171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0602012050610130600110066003112500400602300211071102
0610330600310060031125004010023022110711621451141164
14511621040115114115014311501451163116414511621061102060
0160060031125004007002300711231114115411661571162144061
# Trust for “COMODO RSA Certification Authority”

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

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
727345322104250321031102060937710712373423700273

CKA_CERT_MD5_HASH MULTILINE_OCTAL
6330612601611006663140240662212553040760375354030

END

CKA_ISSUER MULTILINE_OCTAL

END
# Certificate "USERTrust RSA Certification Authority"

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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

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

CKA_ID UTF8 "0"

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


\245\233\267\222\307\313\234\365\211\066\164\062\326\050\301
\260\260\013\340\234\114\303\034\326\374\343\151\265\107\106\201
\057\242\202\253\332\143\104\160\030\215\377\055\063\272\255\217
\173\265\160\210\256\076\031\317\100\050\330\374\310\220\273\135
\231\042\236\512\346\130\305\037\210\061\103\356\210\035\327\306
\216\074\103\152\035\247\030\336\175\075\026\361\142\371\312\220
\250\375

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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

CKA_CLASS CK_OBJECT_CLASS 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\020\121\060\013\060\011\006\003\125\004\006\023\002\125\123
\061\023\060\021\060\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\060\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\060\105\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\037\243\121\125\033\274\144\016\065
# Certificate "USERTrust ECC Certification Authority"

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


# 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):


CKA_CLASS CK_OBJECT_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

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

CKA_ISSUER_MULTILINE_OCTAL
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\020\121\060\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\161\163\145\164\171\106\103\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\030\023\045\125\123\105\122\124\162\165\163\164\040
\105\013\030\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\130\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
# 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):

CKA_CLASS CK_OBJECT_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\134\046\056\273\125\371\012\167\212\161\371
\112\330\154
END

CKA_VALUE_MULTILINE_OCTAL
\060\020\002\036\060\202\001\124\242\000\003\002\001\002\002\021\140
\131\111\134\046\056\273\125\371\012\167\212\161\371\112\330\154
\060\020\006\010\052\206\110\136\075\004\003\003\060\120\061\044
\060\020\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
\020\020\006\010\052\206\110\136\075\004\003\003\060\120\061\044
\055\040\122\063\061\023\060\021\006\003\125\004\013\023\033\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\060\060\060\060\060\060\060\132\027


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\015\063\070\060\061\064\060\067\132\060\120
\061\044\060\042\020\060\033\125\004\013\023\033\107\154\157\142\141
\154\123\151\147\156\040\105\103\103\040\122\151\157\164\040\103
\101\040\055\040\122\065\061\023\060\021\060\033\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\004\042\003\014\200\000\000\041\105\105\105\126\373\175\135\277
\351\017\312\041\137\237\013\266\235\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\200\145\064\012\037\172
\335\353\074\063\241\030\235\115\244\157\101\225\070\177\311\036
\204\353\321\236\111\122\207\224\207\014\072\205\112\146\237\235
\131\223\115\227\141\006\206\112\243\102\060\100\006\001\160\066\003
\125\035\017\001\001\177\004\004\003\020\001\006\060\001\170\066\003
\125\035\023\001\001\177\004\005\060\003\001\001\177\060\035\006
\003\125\035\016\000\040\246\000\042\020\275\336\051\110\233\352\007\312
\041\104\104\120\46\336\156\036\032\203\320\237\131\060\012\006\010
\052\206\110\316\075\004\003\000\033\150\000\060\145\002\061\000
\345\151\022\121\115\156\133\306\061\127\201\110\314\122\227\370\373\375
\023\232\427\025\311\155\174\144\323\313\050\045\213\126\331\1240
\347\136\135\116\013\203\234\133\166\051\124\011\104\046\041\152\142
\002\060\161\132\226\255\217\134\352\073\334\117\001\112\052\250\165\222
\073\310\134\375\110\357\015\164\042\250\103\342\156\035\111\136
\307\014\274\247\141\151\361\136\170\073\334\105\231\337\105\363\016
\220\067
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\063\035\040\151\137\277\255\117\335\137\106
\072\033\151\252
Open Source Used In Crosswork Common EMS Services 4.0.0 2018
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\237\255\073\034\002\036\212\272\027\164\070\021\014\242\274\010
END

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\020\060\033\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\013\101\040\035\040\122\106\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: 10030001 (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):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\022\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\141\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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
\x330\x353\x153\x101\x121\x222\x131\x340\x363\x347\x205\x000\x000\x075\x266\x210
\x227\x311\x356\x374

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\x013\x106\x147\x007\x333\x020\x057\x031\x214\x065\x120\x140\x321\x013\x364\x067

END

CKA_ISSUER MULTILINE_OCTAL
\x060\x122\x156\x113\x025\x267\x060\x337\x252\x355\x127\x205\x110
\x254\x035\x152\x335\x071\x151\x344\x341\x171\x170\x276\x316\x005\x277\x241\x014
\x367\x200\x173\x041\x147\x047\x060\x131

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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):

CKA_CLASS CK_OBJECT_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

END

CKA_ID UTF8 "0"

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

END

END

END

END
Open Source Used In Crosswork Common EMS Services 4.0.0  2824
# 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 (SHA1): 76:5E:29:06:8B:2A:09:9A:7A:CB:5D:AD:C1:5A

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden EV Root CA"
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA1): 76:5E:29:06:8B:2A:09:9A:7A:CB:5D:AD:C1:5A

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
Open Source Used in Crosswork Common EMS Services 4.0.0  2826

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\264\355\333\273
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\000\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\033\125\004\012\014\025\123\164\141\141\164\040
\141\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
\141\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:e8:44: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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\000\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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

# 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):


CKA_CLASS CK_OBJECT_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\113\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\164\040\103\101\040\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\115\061\113\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\041\111\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\164\040\103\101\040\061

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\000\01105\043\317\106\174\000\000
\000\002

END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\146\060\202\003\116\240\003\002\001\002\002\020\012
\001\102\200\000\000\000\011\050\331\171\061\174\000\000
\000\002

END

Open Source Used In Crosswork Common EMS Services 4.0.0 2830
# 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):
CKA_CLASS CK_OBJECT_CLASS 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"

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_MILLER_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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):
CKA_CLASS CK_OBJECT_CLASS CK0_CERTIFICATE
CKA_TOKEN CK_BOOLEAN CK_TRUE
CKA_PRIVATE CK_BOOLEAN CK_FALSE
CKA_MODIFIABLE CK_BOOLEAN 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\000\011\006\003\125\004\006\023\002\125\123
\61\012\060\024\006\003\125\004\012\023\015\105\161\164\162\165
\163\161\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\162\040\010\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\121\145\144\040\165\163\145\040\157\156\154\171\016\106\030
\061\100\060\03\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\001\11\006\003\125\004\006\023\002\125\123
\61\012\060\024\006\003\125\004\012\023\015\105\161\164\162\165
\163\161\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\162\040\010\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\121\145\144\040\165\163\145\040\157\156\154\171\016\106\030
\061\100\060\03\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
# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,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",O=See www.entrust.net/legal-terms,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):
CKA_CLASS CK_OBJECT_CLASS 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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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):

CKA_CLASS CK_OBJECT_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\140\014\103\150\151\156\141\140
\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\14\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\140\014\103\150\151\156\141\140
\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\14\103\106\103\101
\040\105\126\040\122\117\117\124
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\024\6\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
\125\035\043\004\030\060\026\200\024\343\376\055\375\050\320\001\3
\265\272\266\242\304\277\006\252\005\212\242\233\373\057\060\017\006
\003\125\035\023\001\001\137\77\004\005\060\003\000\100\137\77\006\0016
\006\003\125\035\017\001\001\137\77\004\004\004\003\020\001\006\060\0035
\006\003\125\035\016\004\026\000\040\243\343\376\055\375\050\320\013
\265\272\266\242\304\277\006\252\005\212\242\233\373\057\060\015\0006
\011\052\206\110\206\367\015\000\100\013\005\000\003\202\002\001
\000\045\306\272\215\333\363\202\071\226\057\360\014\247
\153\204\163\003\333\255\053\117\272\304\011\274\010\262\317\227
\260\03\234\363\327\171\056\165\010\266\322\373\027\210\346\323
\172\077\355\123\023\320\342\057\152\171\131\000\043\050\346\036
\067\127\065\211\040\321\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\224\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\132\061\037\344\047\372\010\330\134\036\370\004\140\122
\021\050\050\003\377\357\123\146\000\245\012\064\026\146\174\375
\011\124\256\236\147\032\157\010\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\053\333\060\032\255\277\042\135\033\323\277
\045\005\115\341\122\032\171\231\237\074\014\223\232\132\241\001\111
\154\200\027\327\004\072\303\062\122\065\101\126\370\024\355\175
\304\213\015\201\037\123\313\036\262\027\266\150\167\132\340\324
\313\310\007\256\365\072\056\126\067\372\000\113\130\051\167
\214\071\227\217\202\213\230\121\345\211\124\030\347\150\177\135
\012\056\373\243\107\161\075\246\043\172\306\001\137\173\101\136
\277\155\200\126\267\212\044\272\063\352\237\341\062\021\213\063
\322\117\200\366\033\100\257\070\236\021\120\171\163\022\023\235
\034\61\54\235\054\210\162\074\060\201\006\221\042\352\131\255\332
\031\056\042\302\215\271\124\024\304\164\274\163\043\137\041\144
\143\200\110\365\240\074\030\075\224\310\011\010\035\100\272\136
\376\376\126\071\124\131\037\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\033\270\023\134\370\162\201\337\112\131\317\231
\000\012\000\013\021\225\332\126\105\003\012\001\223\147\320\325
\171\212\250\125\100\155\015\032\172\100\372\363\137\144\107\222
\313\123\272\123\131\161\177\375\320\025\233\001\330\337\353\331
\346\166\357\320\043\273\073\251\171\263\325\002\051\135\152\11243
\226\017\112\065\347\116\102\300\165\315\007\137\346\054\353\173
\056
END

CKA_NSS MOZILLA_CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for “CFCA EV ROOT”
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\106\154\254\077\270\071\172\042\030\031\125\004\006\023\103\116\061\060\060\056\006\003\125\004\012\140\047\103\150\151\156\141\040\106\151\156\141\156\143\151\141\154\040\03\145\162\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157\162\151\164\171\061\025\006\003\125\004\003\014\014\03\106\103\101\040\05\126\040\122\117\117\124\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\103\116\061\060\060\056\006\003\125\004\012\140\047\103\150\151\156\141\040\106\151\156\141\156\143\151\141\154\040\03\145\162\164\151\146\151\143\141\164\151\157\156\040\01\165\164\150\157\162\151\164\171\061\025\006\003\125\004\003\014\014\03\106\103\101\040\05\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
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_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\001\011\006\003\125\004\006\023\002\010\03\011\006\061
\020\060\016\006\003\125\004\012\023\007\012\011\013\015\011\013\015
\171\061\042\060\040\006\003\125\004\013\023\031\011\013\015\013
\105\040\106\157\165\156\144\141\164\151\157\156\040\010\05\156\144
\157\162\163\145\144\060\10\05\00\060\046\006\003\125\004\003\023\037
\117\11\012\01\050\040\01\02\11\013\145\11\13\145\17\040\01\07\154
\157\142\141\154\040\12\15\157\164\040\01\02\040\01\03\010
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\001\011\006\003\125\004\006\023\002\010\03\011\006\061
\020\060\016\006\003\125\004\012\023\007\012\011\013\015\011\013\015
\171\061\042\060\040\006\003\125\004\013\023\031\011\013\015\013
\105\040\106\157\165\156\144\141\164\151\157\156\040\010\05\156\144
\157\162\163\145\144\060\10\05\00\060\046\006\003\125\004\003\023\037
\117\11\012\01\050\040\01\02\11\013\145\11\13\145\17\040\01\07\154
\157\142\141\154\040\12\15\157\164\040\01\02\040\01\03\010
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\12\164\360\205\207\010\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\12\164\360\205\207\010\263\370\043\032\366\302\300\060
\015\006\01\052\206\11\02\06\367\015\001\001\013\005\000\060\155
\061\01\060\001\010\06\003\125\004\006\023\002\010\03\010\060\020\060
\016\006\003\125\004\012\023\007\127\11\1\123\145\11\13\145\17\061
\042\060\040\060\003\125\004\013\023\031\117\11\012\124\05\040
\061\157\165\156\144\141\164\151\157\156\040\010\05\156\144
\157\162\163\145\144\060\10\05\00\060\046\006\003\125\004\003\023\037
\015\061\016\040\161\062\016\061\061\062\132\027\015
\063\071\016\062\060\061\061\065\061\060\063\062\132\060\155\061
\013\060\01\060\003\125\004\006\023\002\010\03\010\060\020\060\016
\006\003\125\004\012\023\007\127\11\1\123\145\11\13\145\17\061
\060\040\060\003\125\004\013\023\031\117\11\012\124\05\040\016
\157\165\156\144\141\164\151\157\156\040\010\05\156\144
\145\144\060\10\05\00\060\046\006\003\125\004\003\023\037\117\11\1\123
\124\105\040\12\11\123\145\11\13\145\17\040\07\154\157\142\141
\154\040\12\15\157\164\040\01\02\040\01\03\010\010\060\20\01\042
\060\015\006\01\015\22\061\10\02\03\06\150\001\001\001\005\000\003
\020\001\017\000\006\0\020\001\012\002\20\001\001\000\033\027\267
\034\112\044\052\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
\124\020\326\227\071\135\070\035\273\250\023\056\175\070\073\175\015\231\027
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\065\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\120\231\121\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\103\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\131\145
\171\110\104\162\069\004\006\003\125\004\013\023\033\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\033\125\004\003\023\037
\117\111\123\124\010\040\127\111\123\145\131\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
\130\230
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
END

cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false

# Trust for "SZAFIR ROOT CA2"
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAIR 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\001\125\004\006\003\123\002\120\114\061\050\060\046\006\003\125\004\012\141\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\101\101\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
# 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):
CKA_CLASS CK_OBJECT_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
Open Source Used in Crosswork Common EMS Services 4.0.0  2851
\170075\041\144\326\373\310\037\030\001\347\311\165\161\275\275
\134\336\004\207\076\101\126\001\163\66\273\1\326\077\011\023\226\024
\057\336\232\035\142\227\1\263\60\57\226\013\160\115\136\343
\051\166\040\050\162\131\266\253\302\214\146\60\034\167\054\046
\166\065\212\050\024\171\124\371\073\65\043\335\205\020\164\311
\220\003\126\221\134\257\272\017\034\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\134\246\074\172\250\017\033\333
\355\141\032\133\361\136\031\167\143\244\207\157\114\121\070\032
\344\137\307\237\266\210\052\344\205\110\171\130\136\073\370\333
\002\202\147\301\071\333\303\016\113\075\066\036\371\051\223\210
\150\133\250\014\031\041\136\247\350\201\150\054\350\223\066\026
\067\262\312\260\033\046\172\232\045\037\232\232\200\236\113\052
\077\373\243\232\376\163\062\161\130\236\306\162\234\121\150\047
\361\134\114\245\141\223\370\227\020\007\052\060\045
\251\127\130\161\127\035\150\314\055\176\365\340\176\017\202\250
\157\266\272\154\020\013\167\135\212\222\220\272\241\236\133\170\026
\075\105\034\203\63\161\233\133\130\046\375\015
\150\004\106\256\266\331\123\214\276\031\127\261\136\362\031\343
\134\002\131\054\330\157\112\007\331\311\310\056\332\100\165\63\262\040
\247\031\115\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\207\374\107\266\240\013\054\361\304\336
\103\150\010\152\137\073\360\166\143\373\314\006\054\246\306\342
\016\265\271\276\044\217
END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CLASS CK_OBJECT_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\200\061\013\060\011\006\003\125\004\006\023\002\120\014
\061\042\060\040\006\003\125\004\012\023\031\125\016\015\017\014\046
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\010
\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_INVALID_NAME MULTILINE_OCTAL
\061\017\060\015\006\003\125\004\013\023\033\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_SUBJECT_NAME MULTILINE_OCTAL
\061\011\014\006\003\125\004\013\023\033\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

PKA_SUBJECT_ALT_NAME MULTILINE_OCTAL
\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

# # 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

\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317\323\334\060\0222
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\014
\061\042\060\040\006\003\125\004\012\023\031\125\016\015\017\014\046
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\010
\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\125\136\022
\125\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
```
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
```

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In Crosswork Common EMS Services 4.0.0  2856
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\017\060\015\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\060\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\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):
CKA_CLASS CK_OBJECT_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"
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After: Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "ISRG Root X1"

# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# 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):

## Certificate

```
/* Certificate */

/* Issuer */
/* Serial Number */
/* Subject */
/* Not Valid Before */
/* Not Valid After */
/* Fingerprint */
```

### Certificate Details

- **Label**: Hellenic Academic and Research Institutions ECC RootCA 2015
- **Certificate SHA1 Hash**: 2373611612152223252322363175164227264274157204150132146
- **Certificate MD5 Hash**: 345264027353302365341113015101173111222376357
- **Issuer**: CN=ISRG Root X1,O=Internet Security Research Group,C=US
- **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

The certificate is a trusted certificate for ISRG Root X1, used by various entities such as the Hellenic Academic and Research Institutions ECC RootCA for securing communications and verifying the authenticity of other certificates.
# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# 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):
# Fingerprint (SHA1):

CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0  2864

# Certificate "AC RAIZ FNMT-RCM"
#
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_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\016\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\020\005\203\060\202\003\153\240\003\002\001\002\200\201\135
\223\215\060\147\066\310\006\035\032\307\124\204\151\100\07\060\015
\006\011\015\206\110\206\367\015\001\016\103\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
\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111
\056\143\145\162\164\056\145\163\057\144\160
\143\163\057\060\015\006\011\052\020\016\010\026\036\017\050\001\000\013
\005\000\003\020\002\001\000\007\220\112\337\363\043\116\360\030
\234\121\145\143\145\162\042\224\212\014\015\036\163\051\153\115\376
\001\132\125\114\143\001\027\000\041\172\245\015\230\013\373\001\023
\372\534\232\143\155\120\063\076\266\142\322\215\116\124\22\373\300\016
\105\174\145\014\370\262\067\317\254\017\317\215\157\371\031\036
\217\354\036\362\160\236\036\13\220\075\277\377\166\067\166\133
\366\161\210\033\62\142\062\042\223\015\072\152\216\024\146\014
\055\123\164\127\145\036\325\026\335\043\201\073\245\146\043\047
\147\011\121\341\167\252\010\315\151\10\105\110\105\355\121\130\376\036
\071\371\131\107\024\044\025\361\166\272\344\356\244\073\030\041
\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\310\173\372\062\021
\052\267\053\020\013\151\203\070\276\315\120\056\013\160\255\215
\046\222\356\036\365\000\105\031\123\313\226\227\233\156\340\250\031
\034\072\041\123\014\036\100\255\003\034\167\176\365\271\040
\015\003\352\022\366\371\022\010\324\071\340\240\000\135\327\230\036
\175\236\147\163\303\232\052\367\253\213\241\072\024\357\064\274
\122\016\211\230\023\020\041\000\204\035\176\105\151\223\127\316\035
\316\370\120\174\031\43\156\004\010\323\333\171\326\073\043\030\035
\352\216\321\115\106\215\036\073\344\152\123\272\373\043\267\233
\372\231\000\105\113\32\130\123\055\343\371\124\155\164\046\255\301
\156\064\274\062\370\014\005\037\145\243\333\073\067\203\042\351
\326\334\162\063\375\135\362\040\275\166\074\043\332\050\367\037
\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\137\361\172\364\050\263\377\101
\366\1\200\005\032\270\017\121\172\254\020\253\324\354\003\146\034
\152\260\027\061\122\020\100\152\276\072\323\162\241\115\206\125
\274\254\035\225\267\115\141\362\103\221\164\346\240\323\012\044
\106\241\010\257\326\332\105\031\122\263\324\123\035\133\204\171\136
\100\367\107\357\213\217\305\006\256\235\114\142\235\377\106\004
\370\323\131\266\020\045\100\165\376\026\252\111\121\140\206\057
\272\357\061\173\344\124\342\270\204\231\130\025\252\023\213\121
\072\117\110\366\213\266\263
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "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\230\061
\021\060\017\006\003\125\004\012\140\010\066\116\115\124\055\122
\103\115\060\031\060\027\006\003\125\004\013\014\020\010\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
# 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):
CKA_CLASS CK_OBJECT_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\001\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
# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
9152793771\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\0011\006\003\125\004\006\023\002\125\123\061
# Certificate "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# 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):

CKA_CLASS CK_OBJECT_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_SUBJECT_MULTILINE_OCTAL
\017\060\015\006\000\003\125\004\000\000\120\123\156
\061\013\030\000\125\004\000\000\120\123\156
\017\060\015\006\000\003\125\004\000\000\120\123\156
\061\013\030\000\125\004\000\000\120\123\156
\156\040\122\157\157\164\040\010\101\040\062
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\071\061\013\030\000\110\006\000\003\125\004\000\000\120\123\156
\017\060\015\006\000\003\125\004\000\000\120\123\156
\061\013\030\000\125\004\000\000\120\123\156
\061\013\030\000\125\004\000\000\120\123\156
\156\040\122\157\157\164\040\010\101\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\122\157\157\164\040\010\101\040\061
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\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\036\040\13\000\21\037\053\063\345\122\257\113\204\333\146
\122\060\015\006\011\052\206\110\206\036\071\150\016\014\005\000
\003\202\020\021\000\002\252\250\200\217\016\170\243\340\242\324\315
\346\65\232\017\207\33\352\000\032\260\227\016\223\274\113\250\0366
\054\214\162\207\251\126\137\017\163\375\143\161\170\245\207\131
\317\060\034\015\052\206\202\231\132\155\202\363\152\346\200\237\240
\005\015\130\034\011\153\307\152\337\266\373\165\062\162\345\030
\372\011\364\240\223\054\135\322\214\165\205\166\145\220\014\003
\171\267\061\014\314\023\55\170\203\011\020\160\150\204\312\377\371\1317
\062\222\221\171\347\315\113\305\047\141\142\027\273\13\363\251\022
\223\122\153\247\350\057\123\222\304\014\013\260\314\002\121\030
\133\205\215\142\131\143\266\255\264\336\232\373\046\376\000\0047
\300\135\125\067\164\231\311\120\177\343\131\056\044\343\054\045
\356\354\114\060\216\76\264\237\032\351\113\135\040\035\323\375\034
\207\062\306\013\350\032\247\046\232\105\160\136\251\201\036\71\123
\342\210\167\043\73\357\340\106\362\11\267\314\102\266\313\130\0046
\156\331\245\311\072\231\010\023\140\367\120\214\025\256\262\155
\032\205\032\127\170\346\222\052\331\145\220\202\077\154\002\257
\256\020\072\047\226\066\004\327\035\242\200\143\251\233\361\1345
\272\264\174\024\260\116\31\126\037\164\131\070\366\121\1352\233
\372\054\242\021\324\251\105\047\032\105\261\257\262\116\161\1015
\300\130\106\326\151\006\313\123\331\263\376\153\013\151\010\176
\175\140\174\162\171\172\131\151\361\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\205\142\036\2627
\237\276\075\261\051\257\147\241\102\236\213\020\031\123\003\060
\033\270\032\111\366\243\242\75\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\013\214\167\051\247\150\300\153\256\100\322\250\0264
\352\315\360\215\113\070\234\031\123\323\033\050\124\270\211\1220\357
\312\165\021\107\063\362\144\044\307\030\257\116\377\107\236\007
\366\065\145\244\323\012\126\373\365\027\144\154\357\250\042\045
\111\223\266\370\000\027\332\130\176\135\356\035\033\260\321\321
\137\041\020\307\371\163\273\002\012\047\007\305\361\326\073\323
\340\373\011\140\154

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# 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

Open Source Used In Crosswork Common EMS Services 4.0.0 2872
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
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\223\104\226\265\170
\317\107\113\032
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\102\234\172\300\052\134\174\236\046\277\146
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\101\13\060\01\100\06\003\125\004\006\23\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
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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\001\125\000\04\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\010\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\001\125\000\04\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\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\122\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\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\350
\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\107\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\010\031
\060\027\006\003\125\004\003\023\020\010\155\141\172\157\156\040
\122\157\157\164\040\013\010\040\063\060\036\027\015\061\065\060
\065\062\066\060\060\060\060\060\060\132\027\015\064\060\060\065
\062\066\060\060\060\060\060\060\060\060\132\060\071\060\101\060\110
\003\125\004\006\023\006\125\123\061\107\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\010\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\000\040\051
\127\247\306\110\177\300\015\233\350\001\033\126\306\362\122\245
\272\055\262\022\335\032\205\362\373\321\131\305\330\252\155\037\163
\201\073\073\230\153\071\174\063\243\250\151\062\066\216\020\027\150
\142\105\127\175\104\130\035\263\067\345\147\010\035\316\336\243
\102\060\100\060\107\060\003\125\035\023\001\001\137\004\005\060
\003\030\001\113\177\006\016\060\003\125\035\031\070\100\100\137\004\004
\003\001\001\120\060\060\035\060\003\125\035\016\004\026\004\024\253
\266\333\332\270\006\236\067\254\060\206\007\221\160\307\234\304\031
\261\170\300\069\012\060\010\052\206\110\316\075\004\003\002\000
\111\000\060\106\002\041\100\134\205\222\243\027\267\125\171\153
\106\245\223\254\032\230\150\141\162\372\341\241\320\373\034\170
\140\024\103\231\305\270\304\002\041\100\100\100\234\002\153\361\172\242
\263\226\371\135\306\052\370\266\054\376\072\220\024\026\232\214
\143\044\110\034\337\060\175\325\150\073
END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\001\100\060\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
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_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\060\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\060\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\020\001\162\060\020\001\170\240\003\002\000\100\002\002\023\006
\154\237\327\301\273\020\114\051\103\345\161\173\173\054\310\032\301\016
\301\116\060\012\000\100\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\020\002\006\003\125\004\003\023\020\101\155\141\172\157\156
\122\157\157\164\040\103\101\040\064\006\036\027\015\061\065\060
\065\062\060\060\060\060\060\060\060\013\220\027\15\064\060\060\060
\026\060\060\060\060\060\060\060\013\220\027\15\064\060\060\060
\003\125\004\006\023\002\125\123\061\017\060\015\006\003\125\004
\101\223\006\011\155\141\172\157\156\061\031\060\027\006\003\125
\040\003\002\023\020\101\155\141\172\157\156\040\122\157\157\164\040
\103\101\040\064\006\016\060\020\006\007\052\206\110\316\075\002
\001\016\005\053\201\004\000\042\003\142\000\004\322\253\212\067
\117\243\123\015\376\031\212\173\133\250\173\106\111\143\260\142
\366\055\033\333\010\161\041\322\000\035\143\275\232\047\373\360
\107\11\156\013\352\075\245\311\201\125\243\133\040\230\015\135\026
\333\375\350\020\155\343\324\340\343\275\137\204\236\363\160\144
\063\240\313\044\057\160\272\210\241\052\240\165\370\201\125\61\142
\006\034\021\133\071\156\051\260\036\372\056\134\243\102\060\010
\060\017\006\003\125\035\023\001\010\377\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\000\137\004\004\003\002\001
\206\060\035\060\003\125\035\016\004\026\004\024\323\354\307\072
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"

CKA_ISSUER MULTILINE_OCTAL
\145\156\314\341\332\166\232\126\373\234\363\206\155\127\145\201
\060\012\006\010\052\206\110\316\075\004\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\070\016\360\067\131\022\377\055\231\122\050\116\052\117\065
\115\063\132\002\060\010\000\352\165\000\116\073\304\072\224\022\221
\311\130\106\235\041\023\162\247\210\234\212\344\114\112\333\226
\324\254\213\153\153\111\022\123\063\255\327\344\276\044\374\265
\012\166\324\245\274\020

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "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
# 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):

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_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\001\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\012\023\024\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\050\060\013\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\140\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\154\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\001\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\012\023\024\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\050\060\013\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\140\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\154\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
\004\024\063\101\350\310\071\022\025\223\110\362\226\062\056\132
\365\332\224\137\123\140\066\015\006\010\052\026\110\206\067\015
\001\010\013\005\000\000\003\020\001\010\000\025\343\163\127\261\027
\266\137\111\115\104\246\366\136\172\147\254\322\363\165\111\125
\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\115\42\17
\342\123\342\074\100\063\331\244\214\107\346\255\130\373\211\527
\343\336\206\051\112\266\064\054\105\270\022\327\104\211\156\055\024
\045\050\044\000\115\326\335\104\107\346\255\156\126\022\011\075\320
\164\364\327\275\066\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\122\241\17\132\061\060\067\111\243\072\202\226
\347\066\321\041\150\113\055\070\346\123\256\034\045\126\010\126
\003\147\204\235\306\033\16\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\204\202\027\070\024\267\006\352\233\277\072\370\351\043
\007\227\164\343\030\070\025\125\170\356\162\000\134\031\243\364
\322\063\340\377\275\321\124\071\051\017
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\132
END

# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\020\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\115\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\115\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\006\003\125\004\003\023\074\123\171\115\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\140\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_PATH 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
# 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):
CKA_CLASS CK_OBJECT_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\115\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\115\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\006\003\125\004\003\023\074\123\171\115\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\140\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

Open Source Used In Crosswork Common EMS Services 4.0.0 2881


# 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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\060\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\003\125\004\013\023\026\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\060\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 (0xfdac)

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):


CKA_CLASS CK_OBJECT_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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

END

END

END
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "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
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

END

CKA_NSS_MOZILLA_CA_POLICY 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

CKA_CLASS CK_OBJECT_CLASS 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

Open Source Used In Crosswork Common EMS Services 4.0.0 2890
# 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):

CKA_CLASS CK_OBJECT_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\103\130\060\001\110\006\003\125\004\006\023\023\022\103\116\061
\060\142\060\060\060\000\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\110\124\131\104\030\117\056\054\114
\124\104\056\061\037\060\003\006\003\125\004\003\014\026\107\104
\103\101\040\124\142\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\112
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\142\061\101\130\060\011\006\003\125\004\006\023\023\022\103\116\061
\062\060\060\060\000\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\110\124\131\104\030\117\056\054\114
\124\104\056\061\037\060\003\006\003\125\004\003\014\026\107\104
\103\101\040\124\142\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\112
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\003\006\011\107\040\015\001\001\005\000\060\142\061\130\060\011\106\003\125\004
\006\023\020\103\116\061\106\020\060\060\006\003\125\004\012\014\051\107\125\101\116\107\040
\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\112\141\131
\104\010\130\170\056\054\114\124\104\056\061\037\060\003\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\056\1064
\061\106\106\106\060\106\065\061\106\065\132\027\015\064\060\061
\062\063\061\061\065\065\071\065\071\132\060\142\060\101\130\060\011
\006\003\125\004\006\023\002\013\116\061\106\062\060\060\006\003\125
\004\010\130\140\051107\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
\053\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\020
\002\020\102\100\156\061\011\052\206\110\106\036\015\001\000\010\005
\000\000\132\020\220\170\100\060\020\020\120\120\020\010\003\311
\124\026\136\031\106\164\164\167\233\357\063\015\073\006\176\125\374
\126\140\171\166\160\060\120\102\175\126\146\126\102\202\355\162\143
\106\162\123\133\356\045\002\121\121\030\031\137\131\124\204\311
\136\115\132\163\114\260\035\1350\061\135\070\030\124\247\056\021\127
\127\202\025\242\234\217\155\260\231\112\122\136\353\121\160\143
CKA_CLASS CK_OBJECT_CLASS 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"

# 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):
CKA_CLASS CK_OBJECT_CLASS 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"

# fingerprint (SHA-256):
# Fingerprint (SHA-256):


```
\041\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\112\124\131\104\103\170\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\014
\103\110\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):
CKA_CLASS CK_OBJECT_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\170\013\060\011\006\003\125\004\006\023\002\120\101
\061\170\013\060\015\006\003\125\004\010\014\006\120\141\116\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\204\123\171\163\164\145
\151\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\013\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\033\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
```

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# 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):
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "TrustCor RootCert CA-2"

# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Serial Number:25a1: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):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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\001\11\006\003\125\004\006\023\002\120\101
\061\17\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\060\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):
# 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\101\13\106\001\11\006\003\12\25\004\006\023\002\120\101
\061\17\060\15\006\003\12\25\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\12\25\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\12\25\004\012
\014\033\124\162\165\163\164\163\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\12\25\004\013\014\036\12\162\165\163\164\103\157\162
\040\013\145\162\166\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\12\25\004\003\014
\016\12\162\166\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\101\13\060\001\11\006\003\12\25\004\006\023\002\120\101
\061\17\060\15\006\003\12\25\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\006\003\12\25\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\12\25\004\012
\014\033\124\162\165\163\164\163\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\12\25\004\013\014\036\12\162\165\163\164\103\157\162
\040\013\145\162\166\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\027\060\025\006\003\12\25\004\003\014
\016\12\162\166\165\163\164\103\157\162\040\105\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\204\202\020\054\137\034\142\320\100
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\040\060\020\003\010\240\003\002\001\100\200\02\01\11\000
\204\202\054\137\034\142\320\100\060\015\006\011\052\206\102\020
\367\015\001\010\13\05\000\060\201\234\061\103\160\110\060\003
\125\004\006\023\002\120\101\061\017\060\015\006\003\12\25\004\010
# 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):
# 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
\147\135\342\147\154\165\163\261\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\100\063\134\373\254\030\225\014\243\377\231
\226\367\053\047\233\225\044\314\035\335\031\072\340\023\010\42\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\0312
\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\373\105\354\047\222\175\347\040\202\6350
\300\150\066\330\366\117\200\010\40\062\371\341\321\321\035\252
\336\250\253\234\004\257\255\040\161\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\018\161\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
\342\237\327\346
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0  2905
Certificate "SSL.com Root Certification Authority RSA"

Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid After: Tue Feb 12 17:39:39 2041
Fingerprint (SHA-256):
Class CK_OBJECT_CLASS CK_CERTIFICATE
Token CK_BBOOL CK_TRUE
Private CK_BBOOL CK_FALSE
Modifiable CK_BBOOL CK_FALSE
Label "SSL.com Root Certification Authority RSA"

Certificate Type CK_CERTIFICATE_TYPE CKC_X_509
Subject MULTILINE_OCTAL

Issuer MULTILINE_OCTAL

ID UTF8 "0"
Issuer MULTILINE_OCTAL

Open Source Used In Crosswork Common EMS Services 4.0.0 2906


```
\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\314\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\152\260\006\125\373\047\077\123\220\160\251\004\036\127\047
\271
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After: Tue Feb 12 17:39:39 2041

CKA_CLASS CK_OBJECT_CLASS 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_ISSUER CK_NSS_ISSUER
CKA_SERIAL_NUMBER CK_NSS_SERIAL_NUMBER

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\267\253\063\010\321\135\104\167\272\024\200\022\132\157\275\251
\066\111\014\273
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\030\160\361\135\254\254\032\023\274\024\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\162\160\157\162\141\164\151\157\156\061\060\065\000
\100\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
```

# Certificate "SSL.com Root Certification Authority ECC"

# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# 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

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Certificate:

```
# CK_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CK_TOKEN CK_BBOOL CK_TRUE
# CK_PRIVATE CK_BBOOL CK_FALSE
# CK_MODIFIABLE CK_BBOOL CK_FALSE
# CK_LABEL UTF8 "SSL.com Root Certification Authority ECC"
# CK_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CK_SUBJECT MULTILINE_OCTAL
# CK_SERIAL_NUMBER MULTILINE_OCTAL
# CK_VALUE MULTILINE_OCTAL
```

END

```
CKA_ID UTF8 "0"
```

END

```
CKA_ISSUER_MULTILINE_OCTAL
```

END

```
CKA_SERIAL_NUMBER MULTILINE_OCTAL
```

END

```
END
```

```
END
```

```
END
```

```
END
```

```
END
```

Open Source Used In Crosswork Common EMS Services 4.0.0 2910
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprin t (SHA-256):
# Fingerprin t (SHA1):
CKA_CLASS CK_OBJECT_CLASS 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\066\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\066\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\140\040
\103\157\162\160\157\162\141\164\151\157\156\061\060\057\006
\003\125\004\030\140\050\123\123\140\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\1040\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_TRUSTED_DELEGATOR
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
# Fingerprin t (SHA-256):
# Fingerprin t (SHA1):
CKA_CLASS CK_OBJECT_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\060\010\060\026\006\003\125\004\012\014\017\123\123\114
\040\013\157\162\160\157\162\141\164\151\157\156\061\167\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\060\010\060\026\006\003\125\004\012\014\017\123\123\114
\040\013\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\135\064\274\170\366

END

CKA_VALUE MULTILINE_OCTAL
\002\020\005\353\002\020\003\132\240\003\001\100\000\012\101\012\100\011
\266\051\135\064\274\170\366\060\015\000\000\060\020\120\026\013\006\011\006\003\125
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\000\122
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\060\010\060\026\006\003\125\004\012\014\017\123\123\114
\040\013\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
\000\201\126\266\051\135\064\274\170\366

END

CKA_VALUE MULTILINE_OCTAL
\002\020\005\353\002\020\003\132\240\003\001\100\000\012\101\012\100\011
\266\051\135\064\274\170\366\060\015\000\000\060\020\120\026\013\006\011\006\003\125
\004\006\023\002\125\123\061\016\060\014\006\003\125\004\010\000\122
\005\124\145\170\141\163\061\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164
\157\156\060\010\060\026\006\003\125\004\012\014\017\123\123\114
\040\013\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
Open Source Used In Crosswork Common EMS Services 4.0.0 2914
"263\216\313\012\235\111\216\277\224\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\114\240\011\015\276\223\206\057\371
\112\155\307\136\365\127\371\312\125\034\222\276\107\017\066\305
\337\152\267\333\165\302\107\045\177\271\136\143\370\150\055\125
\004\321\362\215\216\260\204\43\171\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\060\143\226\322\233\214\075\370\030\011\1327
\003\114\175\206\202\340\312\004\007\121\120\327\373\222\325\014
\357\332\206\237\231\327\353\267\257\150\342\071\046\222\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\124\071\305\141
\235\341\267\015\162\217\373\244\304\251\170\371\133\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\212\260\173\314\073\334\125\002\057\042\254\106\312
\106\074\240\034\114\326\201\046\241\136\056\134\025\146\011\341\046
\051\376\306\121\141\272\261\163\377\130\014\234\345\154\152\224
\077\024\312\100\026\225\204\363\113\215\125\147\114\141\122\315
\321\073\132\42\223\014\042\246\147\147\104\056\267\333\132\222\12
\101\263\146\013\132\373\175\043\245\362\032\260\377\336\263\203
\224\056\321\077\337\222\267\212\257\005\073\145\307\240\154\261
\315\142\022\233\032\200\033\343\045\316\064\247\157\167\166\216\020
\303\036\005\032\300\032\257\164\142\110\027\167\222\151\220\041
\003\336\225\200\164\124\217\030\034\363\003\320\277\244\103
\165\526\123\030\172\012\056\011\034\066\237\221\135\202\221\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\041\177\132\250\047\226\027
\255\011\060\204\254\266\161\027\156\213\027\366\034\011\324\055\073
\230\025\161\132\323\124\023\331\140\363\365\113\146\117\372\361\336
\040\022\215\264\254\127\261\105\143\214\254\166\251\302\373
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “SSL.com EV Root Certification Authority RSA R2”
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:56:b6:29:cd:34:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# 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 Dec 18 15:23 2016
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_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"

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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"

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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"
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\103\060\026\060\003\125\004\012\014\017\123\114\040
\003\125\004\003\140\053\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

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\124\133\026\355\005\225\026\010\052\206\110\316\075
\002\001\006\005\053\201\004\000\042\003\142\000\004\252\022\107
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\114\335\121\243\321\365\040\062\024\260\306\035\062\043\003\221
\307\106\102\155
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\010\200\112\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
# Certificate "GlobalSign Root CA - R6"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# 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):

CKA_CLASS CK_OBJECT_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

END

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTI_LINE_OCTAL
06014061040060030351250004010101400051241451701411163061
0201060116000603125004000710140071101571165163164157
15606103006002060000031250040121014017123114040
103115716216016157162141164115115711560610641060062006
003125004000310415531231140561431571555040105126
0401221571571640401031415621641511461511431411164
151115716504010111651641501571621511641171040105103
103

END

CKA_SERIAL_NUMBER MULTI_LINE_OCTAL
002010054051234133102613550050225

END

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

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\210\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\060\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
# 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):
\050\060\066\006\003\125\004\000\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\010\131\010\060\166\060\020\000\060\007\052
\206\010\316\075\002\001\060\005\053\201\004\000\042\003\142\000
\004\141\351\120\300\306\017\162\030\274\330\361\272\263\211\134
\171\12\124\030\247\153\124\044\333\121\127\377\352\364\011\044\303
\013\042\237\313\152\047\202\201\015\322\300\257\061\344\164\202
\156\112\045\331\124\165\235\361\333\332\20\224\221\041\176\026
\247\143\220\322\071\132\261\207\170\137\030\226\017\120\033\065
\067\017\152\063\344\331\023\115\244\216\220\067\346\275\133\061
\221\124\124\060\122\060\016\006\003\125\035\017\001\001\137\7004
\004\000\002\001\006\060\017\006\003\125\035\023\001\001\137\7004
\005\060\009\001\001\137\7706\035\006\031\125\035\016\004\026\004
\024\110\207\024\245\343\303\236\220\140\072\327\312\211\135\0632
\255\214\264\120\146\060\020\006\011\053\006\001\004\000\120\2067
\025\001\004\003\002\001\000\060\12\006\010\052\206\110\316\075
\004\003\003\003\150\000\006\060\145\020\060\046\307\151\133\334\325
\347\72\362\347\310\014\214\214\303\335\171\214\033\143\325\001\112
\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\006\100\003\330\064\040
\062\010\377\232\111\002\226\012\036\024\257\135\154\231\161\215
\032\077\213\327\340\242\066\026\034\007\202\072\166\123\375\302
\242\355\357\173\260\200\117\130\017\113\123\071\275
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISEKey Global Root GC CA"
# Issuer: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Subject: CN=OISTE WISEKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISEKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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\033\276\210\201\171\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\101\303\036\000\011\100\006\000\033\125\000\040\006\023\002\103\110\0061
\020\060\001\106\006\000\033\125\000\040\012\023\007\127\111\112\13\145\113\145
\171\061\042\060\040\006\000\033\125\000\040\13\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\000\003\125\000\040\03\023\037
\117\111\123\124\105\040\127\111\112\13\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
# 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):
CKA_CLASS CK_OBJECT_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\001\100\006\003\125\004\006\023\002\103\110\0061
\021\060\001\107\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\103\036\000\033\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\101\303\036\000\011\100\006\000\033\125\004\006\023\002\103\110\0061
\021\060\001\107\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\103\036\000\033\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164

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Open Source Used In Crosswork Common EMS Services 4.0.0 2925
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\133\212\243\355\135\276\132\145\040\145\003
\220\0357
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\020\020\03\056\240\003\002\001\002\002\202\020\135
\337\261\133\212\243\355\135\276\132\145\040\145\003\220\037\0060
\0150\006\011\052\206\110\206\367\015\000\01\013\005\000\060\075
\061\013\060\011\006\003\125\004\006\062\230\02\031\116\061\02\1060
\0170\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\013\03\060\03\016\006\003\125\004\003\014\022\12\125\103\101\040\0107
\1541\1571\142\141\154\040\107\062\040\122\157\157\164\060\036\027
\0150\061\066\060\063\061\061\060\060\060\060\060\132\027\015
\064\060\060\062\063\061\060\060\060\060\060\060\132\027\015
\013\060\011\006\003\125\004\006\062\230\02\031\116\061\02\1060\017
\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164\061
\033\030\03\016\006\003\125\004\003\014\022\12\125\103\101\040\0107\154
\1571\142\141\154\040\107\062\040\122\157\157\164\060\020\020\042
\060\001\050\060\011\105\220\061\010\026\367\015\001\001\001\005\000\003
\202\002\017\000\060\202\020\020\020\020\020\000\305\346\053
\1571\174\357\046\005\047\243\201\044\332\157\313\001\371\231\232
\251\062\302\042\020\07\141\101\221\110\173\133\150\033\006\030\014
\251\053\301\147\027\042\035\053\355\371\051\012\112\22\242\170\275
\222\153\240\243\015\242\176\312\022\23\263\324\321\046\053\252\165
\371\027\366\031\050\054\045\172\354\167\22\23\240\170\043\256\016
\032\003\017\276\324\320\355\056\173\253\016\043\133\077\054\346
\124\172\243\000\025\025\360\031\112\156\017\027\044\041\327\150
\342\061\074\004\063\106\266\124\021\246\245\057\042\124\052\130
\0150\001\002\361\137\205\121\147\154\300\037\327\266\033\177\321
\126\10\057\032\072\215\073\273\230\202\134\010\070\000\320\122\207
\253\373\206\176\017\044\153\100\023\56\041\174\276\153\070\55\206
\157\171\076\216\251\074\027\111\37\177\260\231\343\260\161\140\334
\013\365\144\033\316\103\274\155\161\271\132\335\047\133\12\335
\303\030\265\341\131\175\317\050\055\065\270\215\126\032\161\262
\130\113\267\022\067\310\174\263\355\132\004\125\137\062\024\043
\126\167\157\267\110\225\010\261\104\011\16\205\214\072\002\124\004\005
\337\277\127\117\073\022\220\041\327\301\046\065\124\040\353\007
\077\107\354\353\132\277\113\172\301\255\073\027\120\134\142\330
\011\13\123\344\053\372\156\274\163\222\315\354\037\120\350\010
\126\327\251\176\155\330\351\035\217\212\265\271\130\222\272\112
\122\220\053\014\126\357\200\355\010\036\016\360\115\0130\303\014\257
\172\272\211\255\333\275\243\236\041\131\221\031\354\333\276\303
\032\033\012\263\376\170\066\14\326\156\320\076\027\034\220\027\153
\046\272\373\172\057\270\210\034\030\016\055\163\030\121\170\240\345
\065\240\132\342\114\165\035\116\341\070\071\123\170\100\314\203
\223\327\012\236\235\133\217\212\344\345\340\110\344\110\262\107
\135\116\052\165\052\173\362\042\266\361\112\270\011\221\226\127\172

Open Source Used In Crosswork Common EMS Services 4.0.0 2926
\1210\210\254\356\160\254\371\334\051\343\014\034\073\022\116\110\242\n\326\247\n\162\260\046\310\363\331\031\032\272\222\115\035\352\357\215\106\n\006\232\121\6\105\130\232\074\014\171\203\270\000\50\345\303\071\317\n\073\244\064\211\267\171\102\022\057\107\030\53\47\251\122\151\374\246\n\167\147\265\337\173\361\172\145\025\344\141\126\145\000\200\303\001\n\000\001\024\31\020\60\010\060\06\016\060\000\31\25\303\017\000\100\137\077\n\004\004\003\002\000\010\060\06\001\070\060\003\125\303\023\000\100\137\077\n\004\005\060\003\001\001\377\060\060\035\006\001\125\301\150\064\026\n\004\024\013\034\021\43\1\43\65\344\060\377\245\014\010\137\21\025\n\147\041\164\011\377\377\060\015\000\001\105\206\110\206\367\015\n\001\001\013\005\000\003\32\020\002\001\000\000\23\145\042\365\216\053\n\255\104\344\313\377\77\115\346\333\020\110\075\004\173\372\043\n\057\172\355\066\332\262\316\155\366\346\23\345\137\130\217\313\n\067\062\241\130\145\266\256\070\075\065\033\076\274\073\266\004\n\320\274\377\111\113\65\233\367\205\305\066\266\313\274\373\013\071\n\325\344\137\007\275\025\124\227\164\312\312\355\117\272\272\144\n\166\237\201\270\204\010\51\11\114\213\157\243\335\261\134\312\030\n\224\432\103\032\346\323\50\030\350\242\037\047\005\272\327\345\n\326\251\135\353\357\166\230\215\000\016\315\033\372\003\267\216\n\200\130\016\047\077\122\373\224\242\312\136\145\311\326\204\332\n\271\105\161\6\363\046\300\117\167\346\021\047\322\167\073\232\024\n\157\171\364\366\320\341\323\224\272\320\127\121\275\047\005\015\n\301\175\310\022\060\356\157\215\021\035\010\235\324\324\277\200\n\105\024\232\21\04\332\060\352\264\247\343\335\356\357\133\202\325\n\076\326\255\170\222\333\134\074\363\330\255\372\270\153\177\304\n\066\050\266\002\025\212\124\054\234\326\060\271\163\216\320\067\243\n\024\074\230\022\255\000\014\051\005\333\266\111\111\261\137\307\343\n\313\117\047\145\216\065\207\267\127\310\060\331\101\113\327\012\n\266\350\032\017\224\061\124\272\224\230\314\152\353\265\341\047\365\n\020\025\001\135\021\60\222\142\350\210\314\265\177\106\227\300\233\n\014\060\070\032\066\106\137\042\150\075\337\311\030\023\047\253\n\123\006\254\242\074\206\006\145\157\261\117\261\051\104\232\243\n\272\111\151\050\151\217\327\345\137\255\004\206\144\157\032\240\n\014\035\010\142\316\200\243\320\363\354\150\335\276\063\037\027\n\133\177\200\304\114\114\246\124\204\212\030\372\270\011\135\024\n\201\127\203\034\312\124\270\066\376\333\057\174\107\241\070\206\331\n\317\110\037\110\117\261\312\002\211\004\226\050\150\035\113\270\n\046\211\127\326\063\057\120\325\376\232\211\272\030\062\222\124\n\306\133\340\232\357\111\363\45\015\042\233\366\332\342\310\041\262\n\142\041\252\206\100\262\056\144\332\137\310\343\176\021\147\105\n\037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042\n\037\055\160\264\270\000\106\166\060\000\345\043\170\247\126\327\n\120\037\212\373\006\365\302\031\136\032\END\n\nCKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE\nCKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE\nCKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS 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\034\112\360\134\142\062\237\034\272\170\025\120\0370
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\003\100\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\132\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
# 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_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\133\060\011\100\063\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\016\014\056\060\043\006\003\125\000\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\133\060\011\100\063\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\016\014\056\060\043\006\003\125\000\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\002\001\132\060\020\003\010\224\000\003\002\000\012\002\020\117
\322\053\217\365\144\310\063\236\117\064\130\146\043\160\140
\015\006\010\105\202\206\110\020\367\015\001\001\130\050\000\060\107
\061\103\060\011\100\063\003\125\004\006\023\002\103\116\061\102\010\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\105\060\043\006\003\125\000\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\150\160\036\027\015\056\106\063\063
\063\060\060\060\060\060\060\132\207\015\063\070\061\062\063\061
\060\060\060\060\060\060\060\132\060\017\061\013\060\011\000\063\125
\004\006\023\002\010\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\145\151\144\141\164\157\157\164
\060\020\020\020\042\060\015\006\011\052\206\110\020\367\015\001\001
\001\005\000\003\320\020\017\000\060\020\020\012\002\020\020\117
\000\025\010\110\007\050\023\002\026\023\134\014\144\252\036\103\106\172
\163\262\122\240\165\076\250\372\343\070\000\172\354\211\152\040
\101\213\305\260\233\063\003\132\206\030\130\060\325\030\205\273
\117\066\234\100\115\132\276\356\151\226\270\255\020\060\232\174
\222\005\353\005\053\322\110\320\270\166\076\226\310\040\273\332
\260\361\12\17\302\024\105\106\037\252\147\140\264\167\176\152\037
\074\032\122\172\004\075\007\074\205\015\204\320\037\166\012\367
# Trust for "UCA Extended Validation Root"

# Issuer: CN=UCA Extended Validation Root, O=UniTrust, C=CN
# 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): 
CKA_CLASS CK_OBJECT_CLASS 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
800a29d9c20848f07985e6dd03a9ca6586e6f26964b4e64f054108a9c0cc3
501f300d19a1e65a107f24d307457528c8f77fc8f6f7b038f9a08d4
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
8d7a3f57b1f746a8475b6744f90e58b735f5f0f79a6b44d08e944e4
end

CKA_ISSUER MULTILINE_OCTAL
1371033060642333322772141761005123255226342
END

CKA_MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\117\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
# 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):
CKA_CLASS CKBJECT_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\061\062\040\061\064\063\060\070\061\060\060\060\063
\060\061\031\060\027\006\003\125\004\013\023\060\060
\060\062\040\064\064\060\070\061\060\060\060\063
\060\061\031\060\027\006\003\125\004\013\023\060\060
\060\062\040\064\064\060\070\061\060\060\060\063
\066\061\031\060\027\006\003\125\004\013\023\060\060
\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\061\062\060\130\060\011\006\003\125\004\006\023\002\106\122\061
\022\060\020\006\03\125\004\012\014\011\104\150\151\153\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\064\060\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\031\132\035\033\211\361\125\003\015\243\346\101\155\034
\343\246\341
END
CKA_VALUE MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
05\55\015\122\024\377\236\255\231\044\001\164\040\107\156\154\205
04\47\365\103
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
01\61\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CKA_ISSUER MULTILINE_OCTAL
0\060\132\061\013\060\011\006\003\125\004\006\023\002\106\122\061
0\22\060\020\006\003\125\004\012\014\011\1\104\150\151\157\117\157
1\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\066
0\606\062\040\064\070\061\064\066\063\060\070\061\060\066\060\066
0\66\061\031\060\027\006\003\125\004\003\014\020\103\145\162\164
1\151\147\156\141\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
00\20\021\000\032\135\103\321\361\125\003\15\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
# 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):

CKA_CLASS CK_OBJECT_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\060\011\010\060\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\060\011\010\060\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\020\120\061\365\344\142\014\154\130\355\326\330
END
# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# 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):

cka_nss Mozilla ca policy ckbbool ck_true
cka_nss server distrust after ckbbool ck_false
cka_nss email distrust after ckbbool ck_false

cka class cko_object_class cko_nss_trust
ck_token ckbbool ck_true
cka private ckbbool ck_false
cka_modifiable ckbbool ck_false
cka_label UTF8 "emSign Root CA - G1"
cka_cert_sha1_hash multiline_octal
\212\307\255\217\163\254\116\061\013\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\056\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\013\010\040\055\040\107\061

cka_cert_md5_hash multiline_octal
\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254

cka_issuer multiline_octal
\060\147\061\013\060\001\010\060\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\056\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\013\010\040\055\040\107\061

cka_serial_number multiline_octal
\002\012\061\365\344\142\014\154\130\355\326\330

cka_trust_server_auth ckt_trust ckt_nss_trusted_delegator
cka_trust_email protection ckt_trust ckt_nss_trusted_delegator
cka_trust_code Signing ckt_trust ckt_nss_must_verify_trust
cka_trust_step_up approved ckbbool 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):
CKA_CLASS CK_OBJECT_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\001\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\000\033\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\140\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\104\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\001\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\000\033\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\140\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\104\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\020\002\116\060\020\001\323\240\003\002\001\000\020\002\012\074
\366\007\251\150\160\016\332\213\204\040\060\012\126\001\052\206\110
\316\075\004\003\003\060\153\061\013\060\011\006\003\125\004\006
\023\060\021\111\116\061\023\060\021\000\003\125\004\013\023\012\145
\155\123\151\147\156\040\120\113\111\061\045\060\043\006\003\125\004\006
\004\012\023\034\145\115\165\144\150\162\141\140\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\104\055\040
\107\063\060\036\027\015\061\070\060\062\061\070\061\070\063\060
CKA_CLASS CK_OBJECT_CLASS 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

# 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):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\103\132\117\362\127\334\240\303\200\356\056\130\352\170\262
\077\346\273\301
END

CKA_ISSUER MULTILINE_OCTAL
\060\153\060\017\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\022\100\032\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\120\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
CKA_CLASS CK_OBJECT_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\113\130\003\125\004\006\023\002\125\123\061
\023\060\022\100\032\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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# 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):

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

CKA_CLASS CK_OBJECT_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_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# 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):

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

CKA_CLASS CK_OBJECT_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_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# 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):

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

CKA_CLASS CK_OBJECT_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_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# 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):

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
# 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):

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
# 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):

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\173\161\266\202\126\270\022\174\234\250

END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\053\060\020\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\060\132\061\013\060\011\006\003\125\004\006 \023\002\125\236\012\060\021\006\003\125\004\013\023\012\145 \155\123\151\147\156\040\125\123\151\147\156 \040\105\013\033\040\122\157\157\164\040\013\011\040\055\040\013 \063\060\020\156\107\060\062\061\070\010\070\063\060\060 \060\132\027\015\046\064\060\062\061\070\061\070\063\060\060 \132\060\132\061\013\060\011\006\003\125\004\006\023\002\125\123 \061\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147 \156\040\125\012\101\111\012\040\006\013\025\004\012\023\013 \145\115\165\144\150\162\141\104\011\111\156\143\061\040\060\036\006 \003\125\004\003\023\027\145\155\123\151\147\156\040\015\010\031\010 \040\122\157\157\164\040\013\010\040\055\040\010\031\063\060\060 \020\006\007\052\206\110\031\016\075\002\001\006\005\053\201\004\000 \042\003\142\120\004\043\375\245\141\125\173\046\020\035\351\267\042 \060\025\060\063\364\201\263\261\102\161\225\071\274\323\122\343\257 \257\371\362\227\065\222\066\016\060\162\072\255\157\071\113\232\351 \273\337\320\376\310\007\101\074\273\125\157\203\243\152\373\142 \260\021\121\100\216\015\110\130\035\123\343\351\042\124\042\115\223 \273\102\014\257\167\23\043\246\175\327\141\021\136\145\143\307\330 \177\376\365\362\251\143\102\060\100\060\035\006\003\125\035\016 \004\026\004\024\373\132\110\320\020\040\110\362\250\351\000\007 \031\101\136\274\346\303\364\317\060\016\006\003\125\035\170\001 \001\137\004\004\003\020\001\006\006\017\060\003\125\035\023\001 \001\137\004\005\006\003\000\001\137\060\012\006\010\052\206\110 \316\075\004\003\003\003\150\000\060\145\002\061\000\264\330\057 \002\111\375\266\114\142\272\103\116\023\204\162\265\256\335\034 \336\326\265\334\126\217\13\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\246\203\021\234\060\321\132\014\13\246\017\111 \323\000\374\241\374\344\245\377\177\255\327\060\320\037\167\177 \276\021\007\125\060\120\040\024\365\127\070\012\250\061\121 END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\060\01\03\060\01\11\060\000\3\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\11\106\01\024\060\022\006\033\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\040\060\036\006\003
\125\004\000\03\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_MUST_VERIFY_TRUST
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=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hong Kong Post Root CA 3,O=Hong Kong 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):
CKA_CLASS CK_OBJECT_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\13\060\011\110\106\003\125\004\006\023\002\101\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\012\157\157\164\040\013\101\040
\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\13\060\011\110\106\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\012\157\157\164\040\013\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\015\026\014\023\011\001\001\001\001\013
\005\010\026\010\024\006\003\125\004\006\023\023\011\110\157\156\147\153\157\156\147\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\012\157\157\164\040\013\101\040
\063
END
CKA_VALUE MULTILINE_OCTAL
\060\015\107\13\060\011\110\106\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\012\157\157\164\040\013\101\040
\063
END

Open Source Used In Crosswork Common EMS Services 4.0.0  2947
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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

\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\010\146\313\070\035\074\337\103
\037\364\115\156\264\272\027\106\374\175\357\207\201\171\152\015
\063\071\372\057\370\024\271\200\263\135\115\252\227\341\371\344
\030\035\307\032\070\214\040\067\04\375\362\050\342\356\132\112\110
\054\337\171\075\216\236\220\074\275\101\112\072\335\133\366\232
\264\316\070\045\060\177\062\175\242\033\224\373\152\377\130\104\345
\336\156\223\215\030\046\375\125\254\275\217\233\322\17\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\077\331\224\060\366\162\204\276\150\125\020\017\306\163
\054\026\151\223\007\376\261\105\355\273\232\125\152\260\332\265
\112\002\045\047\205\327\267\267\206\104\026\211\115\200\053\076
\227\251\234\325\176\125\114\306\336\105\020\034\352\351\107\323
\003\123\356\350\172\001\002\206\170\324\350\302\276\106\166\210
\023\207\042\273\110\022\023\351\122\000\264\002\176\041\032\036\234
\045\363\364\075\136\363\032\030\023\347\317
\313\041\116\260\367\231\110\030\205\301\053\272\125\256\006\352
\320\007\262\334\253\320\202\226\165\316\322\120\203\376\231\347\317
\057\237\347\160\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\303\370\236\255\317\261\114\036\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\032\362\065\122\264\062
\020\142\151\144\041\14\221\234\237\227\352\164\026\375\037\021\006
\232\233\364

\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\137\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\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:00:00:00:55:65: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):
CKA_CLASS CK_OBJECT_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\020\127\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\151\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\056\145\156\164\162\165
END

cka_nss_mozilla_ca_policy ckbbool ckttrue

# 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):
# Certificate "Microsoft ECC Root Certificate Authority 2017"

# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# 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):
CKA_CLASS CK_OBJECT_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\207\336\213\261\112\352\014\127\061\001\302\354
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\131\106\020\020\01\133\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\202\060\110\316\075\004\003\003\060\145\061\103\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
\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067
END

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\162\151\164\171\171\040\062\060\061\067\060\166\060\020\000\060\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\324\274\075\002\012\165\101\023\043\315\200\004\206\002\121
\057\152\250\021\142\013\145\314\366\312\223\035\036\157\112\146\121
\242\003\331\235\222\137\226\026\261\214\156\336\174\315\333\171
\246\057\316\273\316\161\105\374\345\245\253\050\354\143\004\146\231
\370\372\362\223\020\005\341\201\050\102\343\030\61\150\364\346\033
\204\140\112\111\257\355\171\017\073\171\161\366\104\365\001\170
\300\243\124\060\122\060\016\006\003\125\035\017\001\100\137\700\04
\004\003\002\001\206\006\017\006\003\125\035\023\001\001\137\700\04
\005\060\003\001\001\137\706\060\035\006\033\125\035\16\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\135\000\060\145\002\060\013\036\211\153\352\014\371
\137\136\356\140\051\131\072\362\333\326\062\204\031\077\174\325
\057\022\261\142\223\256\120\273\011\062\236\030\355\176\311\066
\224\022\344\150\205\006\242\033\320\057\002\061\000\231\135\126
\264\016\372\126\110\324\244\060\026\222\117\333\124\214\145\001
\121\034\120\146\302\061\267\071\127\270\032\042\007\116\374\153
\124\026\040\377\053\265\347\114\014\115\246\117\163
END
CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS Server DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\130\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\134\112\223\020\321\277\360\031\102\313\137\355\147
END
CKA_ISSUER MULTILINE_OCTAL
```
\060\014\5\061\013\060\001\11\006\003\12\5\004\006\023\002\12\5\12\3\061
\03\6\060\034\006\003\12\5\004\012\23\025\11\5\15\1\143\16\2\157\163
\15\7\146\16\4\04\0\10\3\15\7\16\2\16\0\15\7\16\2\141\16\4\15\1\157\15\6\061
\06\6\060\06\006\003\12\5\004\003\023\055\11\5\15\1\143\16\2\157\163
\15\7\146\16\4\04\0\10\3\10\3\04\0\12\2\15\7\15\7\16\4\04\0\10\3\14\5\162
\16\4\15\1\146\1\13\1\141\16\4\145\04\0\10\1\16\5\16\4\15\0\15\7\16\2\151
\16\4\17\1\04\0\6\2\06\0\0\61\067
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\20\146\362\075\257\207\336\213\261\11\2\352\014\12\7\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
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
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\014\5\061\013\060\001\11\006\003\12\5\004\006\023\002\12\5\12\3\061
\03\6\060\034\006\003\12\5\004\012\23\025\11\5\15\1\143\16\2\157\163
\15\7\146\16\4\04\0\10\3\15\7\16\2\16\0\15\7\16\2\141\16\4\15\1\157\15\6\061
\06\6\060\06\006\003\12\5\004\003\023\055\11\5\15\1\143\16\2\157\163
\15\7\146\16\4\04\0\10\3\10\3\04\0\12\2\15\7\15\7\16\4\04\0\10\3\14\5\162
\16\4\15\1\146\1\13\1\141\16\4\145\04\0\10\1\16\5\16\4\15\0\15\7\16\2\151
\16\4\17\1\04\0\6\2\06\0\0\61\067
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\014\5\061\013\060\001\11\006\003\12\5\004\006\023\002\12\5\12\3\061
\03\6\060\034\006\003\12\5\004\012\23\025\11\5\15\1\143\16\2\157\163
\15\7\146\16\4\04\0\10\3\15\7\16\2\16\0\15\7\16\2\141\16\4\15\1\157\15\6\061

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\225\220\217\226\135\070\244\364\253\336\012\206\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\033\017\243\102\114\161\307\014\312\076
\203\344\246\357\267\001\060\136\121\243\171\365\160\151\246\101
\104\017\206\260\054\221\306\075\352\256\017\204
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\163\245\346\112\073\377\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\060\101\130\060\11\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\104\060\061\106
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):

Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

END

END
<table>
<thead>
<tr>
<th># Trust for &quot;e-Szigno Root CA 2017&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td># Issuer: CN=e-Szigno Root CA 2017,OID:2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU</td>
</tr>
<tr>
<td># Serial Number:01:54:48:fe:21:fd:97:59:0df:5f:04:0a</td>
</tr>
<tr>
<td># Subject: CN=e-Szigno Root CA 2017,OID:2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU</td>
</tr>
<tr>
<td># Not Valid Before: Tue Aug 22 12:07:06 2017</td>
</tr>
<tr>
<td># Not Valid After: Fri Aug 22 12:07:06 2042</td>
</tr>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>Attribute</td>
</tr>
<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH</td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH</td>
</tr>
<tr>
<td>CKA_ISSUERMULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
</tr>
<tr>
<td>CKA_TRUST_SERVER_AUTH</td>
</tr>
<tr>
<td>CKA_TRUST_EMAIL_PROTECTION</td>
</tr>
<tr>
<td>CKA_TRUST_CODE_SIGNING</td>
</tr>
<tr>
<td>CKA_TRUST_STEP_UP_APPROVED</td>
</tr>
</tbody>
</table>

# 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):
# Fingerprint (SHA1):

# CA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CA_TOKEN CK_BBOOL CK_TRUE
# CA_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

---

Open Source Used In Crosswork Common EMS Services 4.0.0 2963
# 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):
# Fingerprint (SHA1):

# Certificate "Trustwave Global Certification Authority"
END

# Trust for "Trustwave Global Certification Authority"
# Issuer: CN=Trustwave Global 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 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):
# Fingerprint (SHA1):

END

# 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,
# 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):


CKA_CLASS CK_OBJECT_CLASS 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
\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\060\206\046\350\015\005\322\131\247\203\124
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\013\060\011\006\003\125\004\006\023\002\125\123
\061\121\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\160\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\165\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_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 ECC P384 Certification Authority"
#
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid After: Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE 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
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042
CKA_CLASS CK_OBJECT_CLASS 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"
# Certificate "NAVER Global Root Certification Authority"

# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR


# 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


CKA_CLASS CK_OBJECT_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\125\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\060\012\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\115\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\164\164\164\164
END

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

CKA_ISSUER MULTILINE_OCTAL
\060\021\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\060\012\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\115\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\164\164\164\164\164
END

CUDA_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

CUDA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\025\015\100\241\227\355\170\047\223\326
END

CUDA_ISSUER MULTILINE_OCTAL
\060\021\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\060\012\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\115\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\164\164\164\164\164
END

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

CUDA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CUDA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CUDA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CUDA_TRUST_STEP_UP_APPROVED 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
# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

END
# 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
# 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):
CKA_CLASS CK_OBJECT_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\060\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\137\032\6\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
# 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
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,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):
CKA_CLASS CK_OBJECT_CLASS 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"

END
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\006\101\13\060\011\100\006\003\125\004\006\023\002\105\123\061
\021\060\017\006\003\125\004\012\104\010\106\116\115\124\055\122
\103\115\061\101\060\014\006\003\125\004\013\104\005\103\145\162
\145\163\066\103\03\060\026\006\003\125\004\141\104\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
# 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
CKA_CLASS CK_OBJECT_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\010\050\061
\031\060\027\000\003\125\004\012\023\020\010\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\010\050\061
\031\060\027\000\003\125\004\012\023\020\010\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\125\014\120\253\123\7\215\062\265\035\003\127
\127\334
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\160\060\120\003\130\240\003\002\001\002\000\020\016
\123\376\250\141\120\253\237\7\215\062\265\035\003\217\127\334\060
\015\006\011\052\206\110\206\367\154\000\001\014\005\000\060\122
\061\013\060\011\100\003\125\004\006\023\002\102\010\056\010\031\060
\027\006\003\125\004\012\023\020\017\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
\064\065\060\036\027\015\062\060\060\036\061\070\060\060\060\060
\060\060\013\027\015\064\065\060\063\061\070\060\060\060\060
\306\256\227\313\105\366\027\214\072\060\144\114\301\237\131\300
\106\102\100\006\107\144\027\170\340\225\007\060\326\214\242\254
\251\131\077\323\173\126\117\373\404\027\050\337\266\053\026\043
\300\237\037\133\343\326\104\136\042\117\043\003\414\014\065\026\065
\171\107\026\061\345\27\366\010\144\246\334\333\250\212\343
\244\173\167\015\322\110\123\050\040\264\123\243\113\116\137\336
\301\166\165\043\334\037\074\170\117\160\061\170\057\242\065\124
\161\104\254\310\304\155\303\366\221\261\137\315\356\104\156\201
\366\100\305\076\052\001\127\253\142\161\003\077\150\021\134\017
\322\044\334\024\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\153\122\275\353\102\154\131\123\222\356\172\320
\235\337\305\033\011\103\056\012\252\030\105\153\350\152\060\172
\127\346\277\263\152\071\215\127\343\361\117\145\150\266\275\023
\050\217\241\026\132\011\120\072\062\056\035\057\104\021\102\046
\000\346\061\230\377\055\241\017\346\244\140\126\317\171\327\262
\116\326\230\072\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\137\323\131\111\040\310\074\146\026
\272\356\215\046\131\127\273\170\360\172\120\060\011\260\140\025
\237\116\334\311\076\036\072\334\142\223\063\260\072\214\164\157
\054\061\105\321\153\021\062\152\150\166\366\075\366\152\023\136
\044\230\347\352\035\323\317\170\202\007\140\367\115\020\032\320
\123\051\152\256\257\233\334\200\037\103\262\225\150\244\030\016
\350\012\107\025\277\124\063\334\001\347\325\246\036\163\330\172
\622\277\057\255\334\125\060\236\337\016\101\274\340\021\136\5241
\014\250\042\341\343\000\243\111\166\017\422\223\430\004\321\172\102
\121\165\220\131\343\233\321\114\242\144\275\163\171\233\157\362
\263\301\366\074

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45, O=GlobalSign nv-sa, C=BE
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
# 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
CKA_CLASS CK_OBJECT_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
# Certificate "GlobalSign Secure Mail Root E45"

# Trust for "GlobalSign Secure Mail Root E45"
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# 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):

CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
\033\012\356\055\140\303\067\307\035\315\265\162\260\331\306\357
\274\362\377\077\360\122\335\010\347\252\144\171\303\344\151\127
\221\057\244\313\174
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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\056\056\237\364\122\055\052\250\024\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\060\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"
# Trust for "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
\173\167\307\141\273\254\064\157\105\117\101\276\320\072\263\350\157\164\227\205\267\110\071\101\326\040\374\320\072\263\372\350\157\170\222\161\067\276\213\227\261\170\061\111\176\237\266\003\023\161\124\235\256
\045\131\134\177\065\137\010\367\100\105\061\170\052\172
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root R46"
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
\173\167\307\141\273\254\064\157\105\117\101\276\320\072\263\350\157\170\222\161\067\276\213\227\261\170\061\111\176\237\266\003\023\161\124\235\256
\045\131\134\177\065\137\010\367\100\105\061\170\052\172
END

Open Source Used In Crosswork Common EMS Services 4.0.0 2991
# Certificate "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46, O=GlobalSign nv-sa, C=BE
# 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):
# Fingerprint (SHA1):

**CKA_CLASS** UTF8 "GlobalSign Root E46"

**CKA_TOKEN** CK_BBOOL CK_TRUE

**CKA_PRIVATE** CK_BBOOL CK_FALSE

**CKA_MODIFIABLE** CK_BBOOL CK_FALSE

**CKA_ID** UTF8 "0"

**CKA_SUBJECT** MULTILINE_OCTAL

**CKA_SUBJECT** MULTILINE_OCTAL

**CKA_ISSUER** MULTILINE_OCTAL

**CKA_SERIAL_NUMBER** MULTILINE_OCTAL

**CKA_TRUST_SERVER_AUTH** CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

**CKA_TRUST_EMAIL_PROTECTION** CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

**CKA_TRUST_CODE_SIGNING** CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

**CKA_TRUST_STEP_UP_APPROVED** CK_BBOOL CK_FALSE
# Trust for "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

END

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\060\111\013\060\011\100\106\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\134\006\032\066\103
\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\146\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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

Open Source Used In Crosswork Common EMS Services 4.0.0  2994
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\130\060\011\110\060\003\125\004\000\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\130\060\011\110\060\003\125\004\000\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\132\113\127\115\273\172\121\133\372\145\345
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\202\060\202\003\152\240\003\002\001\002\002\132\113\273\172\133\372\145\345
END
Open Source Used In Crosswork Common EMS Services 4.0.0  2996
# 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
CKA_CLASS CK_OBJECT_CLASS 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\041\006\003\125\004\006\023\020\107\114\117\102\101\114\124\122\125\123\124\040\062\060\062\060
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 \354\033\245\067\035\067\174\264\221\312\332\324\261\122\265\201\357
\150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201
\114\217\337\313\335\145\331\102\45\315\212\045\51\130\364\342\305\203\245
\011\220\324\154\024\243\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\101\273\327\335\174\241\255\256\326\253\040\002\235\375\012\303
\020\214\111\226\065\344\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
\124\60\12\352\150\262\171\110\006\156\362\127\250\025\063\306\367
\170\112\075\102\173\153\176\376\371\106\352\321\333\216\357\210
\150\133\350\031\333\116\176\375\144\357\377\147\107\210\100\045
\057\076\206\007\275\373\250\345\202\250\254\243\323\151\103\315
\061\120\111\204\123\222\300\261\071\033\071\203\001\060\304\362
\251\137\232\003\275\162\067\140\126\037\066\174\275\071\221\365
\155\015\277\173\327\222
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
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):
CKA_CLASS CK_OBJECT_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\117\066\063\062\070\067\065\061\060\061\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\103\110\104\012\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\117\066\063\062\070\067\065\061\060\061\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\103\110\104\012\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
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

# 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):

CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

#include <string.h>
#include <openssl/ssl.h>

int main(int argc, char *argv[]) {
    return 0;
}

Open Source Used in Crosswork Common EMS Services 4.0.0 3001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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
# 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):
CKA_CLASS CK_OBJECT_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\13\060\011\010\060\003\125\004\006\023\020\12\114\061
\041\160\03\7\00\00\03\125\004\012\02\03\101\163\163\145\143\157
\040\104\164\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\010\047\060\045\006\003\125\004\013\02\03\103\145\152
\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\02\03\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\13\060\011\010\060\003\125\004\006\023\002\12\114\061
\041\160\03\7\00\00\03\125\004\012\02\03\101\163\163\145\143\157
\040\104\164\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\010\047\060\045\006\003\125\004\013\02\03\103\145\152
\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\02\03\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\13\20\022\122\040\245\004\320\055\335\272
\163\364
END
CKA_VALUE MULTILINE_OCTAL
\0620\0200\2021\45\060\0200\2020\01\35\32\40\03\00\20\01\00\2002\0201\0170
\2170\0471\1342\0201\0221\2200\0402\45\0043\20\0553\35\2721\63\364\060
\0120\0206\0101\0522\0601\1036\1607\05\0400\03\00\0601\164\0601\0130\060
\0110\010\0031\25\0040\0606\023\0021\210\1146\0104\0106\0037\006003
\125\0040\0120\2303\03\01\163\164\145\143\157\0401\0401\1411\0411\0164\141
\0401\123\1711\163\164\145\155\163\0401\123\0561\1010\56\061\0147\060
\0450\0063\0125\0040\0130\23\0361\1034\145\1621\64\165\150\0401\103
\1451\1621\44\1614\11\1411\1411\1411\1411\146\155\0401\1011\165\164
\1501\1571\1621\151\1641\1710\031\0603\27\0060\03\1250\04\03023
\0201\031\0145\1621\64\165\155\0401\105103\0355\063\070\0603\26\0660\0606\0672\062\064\065
\0641\3202\1701\5904\0630\0603\0602\0660\0607\0602\0645\0654
\1320\0601\64\0601\13\0603\011\0606\0311\1250\04\0602\23\0021\120114
\0614\01\0603\037\0606\0301\25\0040\0120\2303\03\0111\163\163\145143
\1571\0401\0401\1411\1641\41\0401\23\1711\63\164\145\1551\163\040123
\056101\056061\04\07\0604\0545\0060\03\1250\04\0130\23\0361103145
\1621\64\165\155\0401\1031\1411\1641\151\1461\1431\1411\1641\151
\1571\156040\10111651\641501571621\151\1641710\0610\31\060027
\006003\12\054003\0230201\0310\145162164165\1550401105103
\055063\0700\64\0401\0101\010601\6606\0201\0060\07052\206110
\316107502\0010\0606005532\0101\044000\0420031\1420000\04304
\0502162530\0301\33\1522\76156144\067143344315354\253072
\367314\2412\7016\20211\1327260951\12372412242363233140
\1702\20211\0710006011536235423203161271402032372643346
\027057032\236313500213\2110\43074302021005052247210
\023030363112024327275604054047211125377316114347
\3372346370\050304360112430327117426712325535302243
\10206010060017006003011250350230010011177004050060
\0030101137706003500600303125035016040026000424215
\0061461649441600726332111367274326275107175057274
\02012017113060016006003011250350170100101177004004003
\002001000600012600010052206111031670560004030003000
\15000001601450020600031250552463460303044174357311
\120156301047011723420725715632503301003027522051
\301013572242211703220703412521114234503011036272
\144153361160264324002061000264402004131772253347
\23637322112270471353342601330601611316136070032152
\331014343735236714112221126370352332066302207145226
\056162045057177337303023311

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum EC-384 CA"
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# 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):
CKA_CLASS CK_OBJECT_CLASS 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"

# Certificate "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
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\000\003\125\004\012\023\030\101\163\163\145\143\157\040\010\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056\060\104\076\060\045\006\003\125\004\013\023\036\103\145\162\164\155\040\103\145\162\164\155\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\000\003\125\004\012\023\030\101\163\163\145\143\157\040\010\141\164\141\040\123\171\163\164\145\155\163\040\123\056\101\056\060\104\076\060\045\006\003\125\004\013\023\036\103\145\162\164\155\040\103\145\162\164\155\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\172\061\013\060\011\006\003\120\000\003\023\002\120\112\061\047\060\045\006\003\125\004\013\023\036\103\145\162\164\155\040\103\145\162\164\155\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
# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# 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):
CKA_CLASS CK_OBJECT_CLASS 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"
# Certificate "TunTrust Root CA"
#
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# 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

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

# Certificate "TunTrust Root CA"

Open Source Used In Crosswork Common EMS Services 4.0.0  3008
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601411061011306001100060003125004000600230021241160161
06706060500000312500400120140561011447145156143145
04011614111461511517156115145145040144145040103145
01621641461511431411641511571560400105154185143
01641621571561511611651450610310600270060003125004
030014002012411561241621651631640401221157157164
040103101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
060202005263060202003233240003002001100200204023
00223254321001141222106020602611471352642732621435
0763742030601500060111052206610206367015001001013
0005000060141061013060011000600312500400623002124
116010670606500600312500400120140561011447145156
143145140401161411641511571561141154145040144145040
1031451461511461511431411641511571560400105154
1451431461461571561151161651450610310600270060003
1250040030140201241651561241621651631640401221157
157146040010310106003610270150610671001060640620661060
0700085067065066132027015064046041064602066060070
0650657065066132060114016103060011006003125004006
0230021241160106706065006003125004012014056101
1471451561431450401161411641511571561141154145040
144145040103145162164151146115113411164151157156
040105154145143164162157156115116165145061031060
027006003125004003014020124165156124162165163164
12012211571571640401031010602002040260105060011
0522061102063670150010010005000032020202017000
06020202001200220200200100003031533237437275004123
03351400040702325210005005131011365203021763671131
1237236236143350163333236606251117037264371013037
0771214232040320176006032433540643312062741651133207
1210360322331324243012262154033335111054076254135
13302240032403540643345060304065175373046115033156
066124330365200105234071255234311045004115232220
076116100105162121533150511473063140533401643500005
127012110120332712103332176354133232016142160376
352235035205162354021273065350037047277301241307


```
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TunTrust Root CA"
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL
```
# Certificate "HARICA TLS RSA Root CA 2021"

# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
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\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_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\155\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\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
# 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
# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"

# Certificate "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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
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

END

CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After 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
# 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):

CKA_CLASS CK_OBJECT_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
\256\367\114\345\146\065\321\267\233\214\042\223\164\323\113\260
END
CKA_ISSUER MULTILINE_OCTAL
\060\154\061\13\060\00\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\11\145\154\145\156
\151\143\040\101\143\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\11\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\121\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

Open Source Used In Crosswork Common EMS Services 4.0.0  2018
# 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


# 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):


CKA_CLASS CK_OBJECT_CLASS 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\345\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\135\331\135\333\330\355

END

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\103\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
# Certificate "HARICA Client ECC Root CA 2021"

# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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

CKA_CLASS CK_OBJECT_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_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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\066\001\100\060\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\110\145\154\154\154\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\140\141\162\143\150\040\11\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\03\154\151\145\156\164
\040\105\103\103\040\122\157\157\164\040\103\101\040\062\060\062
\1061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Trust for "HARICA Client ECC Root CA 2021"
Open Source Used In Crosswork Common EMS Services 4.0.0  3024

# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\155\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\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\013\101\040\103\154\151\145\156\164
\040\105\013\03\040\122\157\157\164\040\103\101\040\062\060\062
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\061\150\331\133\034\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):
CKA_CLASS CK_OBJECT_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
\010\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
\010\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\035\132\227\256\154\161\161\060\015\006\011\052\206\110\206\367
\015\001\000\013\005\000\060\121\061\013\060\011\006\003\125\004
\006\002\300\021\051\123\061\102\060\100\006\003\125\004\003\014\071
\101\165\164\157\162\151\144\114\144\040\144\145\040\103\145\162
\164\151\146\151\143\114\143\151\157\156\040\106\151\162\155\141
\160\162\157\156\145\153\151\157\156\141\154\040\103\111\106\040
\101\066\062\066\063\060\060\060\060\070\060\036\027\015\061\064\060
\071\062\063\061\065\062\062\060\067\132\027\015\063\060\060\065
\060\065\061\065\062\062\060\067\132\060\121\061\103\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\114\143\151\157\156\040\106\151
\162\155\151\160\162\157\164\151\163\151\157\156\154\040\103
\111\106\040\101\066\062\066\063\064\060\066\070\060\020\020\042
\060\015\006\011\075\206\110\206\367\015\001\001\001\005\000\003
\020\002\017\000\060\202\002\012\002\020\002\001\000\312\226\153
\216\352\237\037\334\124\065\340\177\114\332\340\303\122\232\175
\266\020\310\002\136\263\103\052\304\117\152\262\312\034\135\050
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# 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):

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\322\377\256\154\161
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\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
# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA, O="iTrusChina Co.,Ltd.", C=CN
# 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
CKA_CLASS CK_OBJECT_CLASS 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
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\070\061\013\060\001\010\060\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\160\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\13\125\123\276\230\071\147\042\132\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
# Subject: CN=vTrus Root CA, O="iTrusChina Co.,Ltd.", C=CN
CKA_CLASS CK_OBJECT_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\140\103\157\056\054\114\164\144\056\061\102\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\140\103\157\056\054\114\164\144\056\061\102\060
\024\006\003\125\004\004\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
\137\157\127\040\005\125\105
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\126\060\020\003\076\240\003\002\001\002\002\024\103
\343\161\102\23\330\263\131\024\135\267\316\214\375\065\157\274
\005\251\105\056\060\110\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\13\150\151\156\141\104\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\150\124\160\060\067\063
\061\106\067\062\064\060\065\132\027\150\156\063\060\067\063\061
\060\067\062\064\060\065\132\026\150\156\063\060\067\063\061
\060\067\062\064\060\065\132\026\150\156\063\060\067\063\061
\060\040\006\023\010\03\116\061\034\060\032\006\003\125\004\012\023
\023\151\124\162\165\163\103\150\151\156\141\104\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\020\002\042
\060\015\006\011\052\206\110\206\067\015\001\001\005\000\003
\202\002\017\000\060\200\002\102\023\020\001\000\027\125\174
\141\132\270\035\004\142\005\240\025\154\267\160\264\101\135\21

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CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY 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
# 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):

CKA_CLASS CK_OBJECT_CLASSCKO_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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# Certificate "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# 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
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\003\033\060\020\001\024\112\400\003\002\000\010\002\020\010
\322\163\352\267\020\030\031\054\154\351\057 \207\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\033\060\060\060\060\060\060\060\060\060\060\060\060\060\060
\060\060\060\071\061\067\061\066\060\060\060\060\060\060\060\060
\060\060\060\071\061\067\061\066\060\060\060\060\060\060\060
\003\125\004\010\023\004\011\011\156\164\145\162\156\145\164\040\123
\145\143\165\162\151\164\171\104\012\145\163\145\141\162\143\150
\107\162\157\165\160\061\010\025\060\023\000\060\033\125\000\040\033\023\014
\111\123\122\107\040\122\157\157\164\040\130\062\060\036\027\015
\062\060\060\071\060\060\040\060\060\060\060\060\060\060\060\013\027\015\064
\060\060\071\061\067\061\066\060\060\060\060\060\060\060\060\060
\060\060\071\061\067\061\066\060\060\060\060\060\060\060\060
\003\125\004\010\023\004\011\011\156\164\145\162\156\145\164\040\123
\145\143\165\162\151\164\171\104\012\145\163\145\141\162\143\150
\004\010\162\157\165\160\061\025\060\023\006\033\125\000\040\033\023
\104\111\123\120\040\122\157\157\164\040\130\062\060\016\060
\020\060\000\075\202\060\110\316\075\002\000\060\055\321\020\004\000
\042\020\003\142\000\004\315\233\325\237\200\020\012\354\011\112\363
\026\112\076\134\317\167\254\336\147\005\015\035\007\266\334\026
\373\312\321\024\333\342\161\140\304\272\105\225\021\121\126\352
\006\337\367\052\026\034\244\271\130\053\056\023\040\000\340\036\020
\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\000\014\037\352\243\130\020\060\100\060\016\060\003\125\035\017
\001\100\013\377\004\004\033\002\001\010\060\060\017\060\060\033\125\035\023
\010\100\011\377\004\005\060\060\030\001\011\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\060\010\052\206\110
\316\075\004\003\003\003\150\000\060\145\002\060\173\171\116\110
\120\204\302\104\207\106\033\105\160\377\130\231\336\364\375\044
\322\125\246\040\055\164\326\064\274\101\124\120\137\000\104\71\126
\264\276\047\165\065\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\120\327\370\202\061\133\102\237\012\365
\376\256\000\150\347\214\111\101\266\157\133\130\025\362\347
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTERCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
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\000\04\006\023\002\124\127\061\043\060\041\006\003\125\000\04\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\000\04\003\014\022\110\151\120\113\111\040\122\157\157\164\040\013\101\040\055\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\000\04\006\023\002\124\127\061\043\060\041\006\003\125\000\04\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\000\04\003\014\022\110\151\120\113\111\040\122\157\157\164\040\013\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\110\133\156\125\260\135\166\152\136\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\020\055\335\254\316\142\227\224\110\133\156\125\260\135\166\152\136\140
\015\020\055\335\254\316\142\227\224\241\110\133\156\125\260\135\166\152\136\140
\036\027\015\061\071\060\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062\062
\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060\167\110\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\140\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120
\113\111\040\122\157\157\164\040\013\101\040\055\040\107\061\036
\036\027\015\061\071\060\062\062\062\062\062\062\062\062\062\062
\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060
\167\110\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\013\101\040\055\040\107\061
\060\020\002\024\060\015\006\011\052\206\110\206\367\151\000\1001
\000\1001\000\1000\003\1002\201\170\000\060\202\002\120\202\202\002\002
\1000\364\036\171\122\163\062\014\163\344\275\023\164\243\324\060
\250\03\202\256\113\330\266\337\165\107\146\364\274\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\134\232\334\057
\125\310\067\077\037\244\300\234\263\344\167\134\240\106\376\167
CKA_NSS_MOZILLA_CA_POLICY 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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\263\346\140\124\136\145\040\116\144\245\037\127\111\037\205\037\205\222\205\210\346\037\114\046\013\314\046
\END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\261\226\105\067\343\233\051\127\111\035\226
\343\345\322\140
END
CKA_ISSUER MULTILINE_OCTAL
\060\171\066\170\130\060\011\100\060\03\125\004\106\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\033\125\004\003\014\022\110
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# Certificate "GlobalSign ECC Root CA - R4"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_ID UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL 06012006014406004200600031250004013023033107154157
14214115412315114715610401051031030401221571571164
040103101040055040122064061023060021006003125004
01202301201207154157142141154123151147156104023060
02100600312500400302301201207154157142141154123151
147156
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
020150010203345176365077223375245011041262246
CKA_VALUE MULTILINE_OCTAL
060202001134040602020011203240003020011002002015002
003345176365077722337524550110411262466600101200601010
052206110331607050400030020601206010440600420060003
12500402103023310751541571422141154123151147156040
1051103103040222157157164040103450140550401122064
0611020360020100600312500401202301210751541571422141
154123151154123151147156060036027015061062
06110610160360060600600600600000120272015063070060
0611061070609063601064060606713206011206010440600042
006000312500401302303310751541571421411541231511147
15650401051031030400122157157164040103101040055040
1220640610230602010600311250040120230121075154157
142214115412315114715606010230602010060031125004003
02301210751541571422141154123151147156060131060023
00600070520611013160705020010601001520261101316075
0030001007003102000004270306171323217154045016237
056071031034000324425623234507010071011026312413261
2712063702121227301127316120372163241367145102377
03630100026215616301637731170413455303042452331161
0772503242713160124035024310206001000600160060003125
035017001001377004004003002000126060017006003125
03502300100137700400405006003010013770004035006003
12503501604026004002412426011732551055270342100177
3733012156373237260363311704243204325060012006010052
20651031607500400303020031070000060104002040042117
16416227111402573613461231240260051201373303136073
15611416433572760011304276031010131141202062002040
04623512414311003360671401203173103303355235202256
06723015243431711411425106405315435733732252331046
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “GlobalSign ECC Root CA - R4”
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Serial Number:063702121227301127316120372163241367145102377
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

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# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# 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):

CKA_CLASS CK_OBJECT_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\001\110\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\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
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_Class CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_Token CK_BBOOL CK_TRUE
CKA_Private CK_BBOOL CK_FALSE
CKA_Modifiable CK_BBOOL CK_FALSE
CKA_Label UTF8 "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

CKA_Cert_MD5_HASH MULTILINE_OCTAL
\005\376\320\277\161\250\243\166\143\332\001\340\330\122\334\100

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\143\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

CKA_Serial_Number MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027

CKA_Trust_Server_Auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_Trust_Email_Protection CK_TRUST CKT_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"
#
\x066144\x2211\x135\x260\x150\x030\x352\x212\x141\x311\x167\x250\x022\x73\x034\x311
\x307\x245\x374\x125\x113\x363\x336\x077\x271\x145\x075\x047\x150\x320\x314\x153
\x372\x123\x235\x341\x221\x032\x311\x135\x032\x226\x155\x062\x207\x355\x003\x040
\x310\x002\x316\x132\x276\x313\x352\x375\x262\x115\x304\x057\x033\x337\x137\x172
\x365\x370\x213\x030\x356\x061\x072\x045\x121\x125\x147\x215\x144\x062\x173\x351
\x236\x303\x202\x272\x052\x055\x351\x036\x264\x340\x10\x006\x242\x374\x147\x257
\x037\x042\x000\x216\x337\x030\x041\x125\x113\x241\x135\x377\x140\x107
\x260\x077\x135\x357\x033\x126\x275\x227\x041\x226\x055\x012\x321\x136\x235\x070
\x002\x107\x154\x271\x364\x366\x043\x045\x270\x240\x152\x232\x205\x167\x010\x372
\x304\x261\x050\x220\x046\x130\x010\x074\x342\x176\x252\x327\x075\x157\x272\x061
\x210\x010\x200\x053\x353\x047\x265\x241\x111\x356\x240\x010\x124\x173\x346\x047\x145
\x231\x040\x041\x250\x243\x274\x373\x030\x226\x273\x122\x157\x014\x355\x203\x121
\x114\x351\x131\x342\x040\x140\x305\x302\x145\x222\x202\x214\x363\x020\x037\x016
\x212\x227\x276\x167\x202\x155\x077\x217\x035\x135\x274\x111\x047\x275\x314\x117
\x017\x341\x131\x166\x206\x004\x043\x305\x300\x214\x221\x133\x375\x333\x204\x240
\x044\x361\x110\x377\x144\x174\x320\x276\x134\x026\x321\x357\x231\x125\x300\x037
\x373\x313\x256\x274\x070\x042\x006\x046\x144\x332\x232\x227\x016\x077\x050\x025
\x104\x250\x117\x000\x312\x360\x232\x314\x317\x164\x152\x264\x076\x074\x353\x225
\x354\x263\x323\x132\x330\x201\x231\x351\x103\x300\x067\x353\x263\x273\x321\x130
\x142\x101\x363\x140\x322\x217\x252\x170\x225\x124\x040\x303\x132\x056\x164\x053
\x325\x321\x276\x030\x151\x300\x254\x325\x244\x317\x071\x272\x121\x204\x003\x145
\x351\x142\x300\x142\x376\x330\x115\x125\x226\x342\x320\x201\x372\x110\x064\x021
\x354\x236\x355\x005\x353\x344\x310\x326\x035\x206\x313
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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
# Certificate "GTS Root R3"

# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# 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):

ckaIssuer Multiline_Octal
\060\107\061\013\060\001\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

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

end

ckaTrust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
ckaTrust_email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
ckaTrust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
ckaTrust_step_up_approved CK_BBOOL CK_FALSE

ckaSubject 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

ckaCertification_type CK_Certificate_Type CKC_X_509
ckaSubject Multiline_Octal
\060\107\061\013\060\001\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

ckaIssuer Multiline_Octal
\060\107\061\013\060\001\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

ckaIssuer Multiline_Octal
\060\107\061\013\060\001\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
# Trust for "GTS Root R3"
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\355\345\161\200\053\310\222\271\133\203\074\322\062\150\077\011
\315\240\036\106
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\347\235\130\002\224\106\121\224\345\340\042\112\213\347\163
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\270\202\353\040\370\045\047\155\075\146
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GTS Root R4"
#
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number: 02:03:e5:00:68: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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_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

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# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:08: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):
CKA_CLASS CK_OBJECT_CLASS 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\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\130\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\060\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

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/certdata.txt
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-

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bz2/ca-certificates-20211220/certdata.txt
No license file was found, but licenses were detected in source scan.

/* c_rehash.c - Create hash symlinks for certificates
 * C implementation based on the original Perl and shell versions
 *
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 * All rights reserved.
 *
 * This software is licensed under the MIT License.
 * Full license available at: http://opensource.org/licenses/MIT
 */

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/c_rehash.c
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/c_rehash.c

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* /opt/cola/permits/1258888650_1643119925.96/0/slf4j-api-1-7-32-sources-jar/org/slf4j/MDC.java
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* /opt/col/a/permits/1258888650_1643119925.96/0/slf4j-api-1-7-32-sources-jar/org/slf4j/IMarkerFactory.java

**1.328 animal-sniffer-annotation 1.14**

**1.329 netty-tcnative 2.0.51.Final**

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Manifest-Version: 1.0
Implementation-Title: Netty/TomcatNative [OpenSSL - Dynamic]
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.
Automatic-Module-Name: io.netty.tcnative.openssl.osx-x86_64
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: io.netty.tcnative
Implementation-Version: 2.0.51.Final
Built-By: norman
Bnd-LastModified: 1646990978815
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Fragment-Host: io.netty.tcnative-classes
Tool: Bnd-5.1.1.202006162103
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/TomcatNative [OpenSSL - Dynamic]
Bundle-Version: 2.0.51.Final
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://github.com/netty/netty-tcnative/netty-tcnative/

Found in path(s):
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1.332 charset-normalizer 2.0.7

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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/Ciphers.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
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* /opt/cola/permits/1248311147_1640375980.55/0/netty-handler-4-1-72-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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 * Constructs a new {@link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted method.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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 * version.
 *
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
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/**
 * Constructs a new {@link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 * *
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @param access the method's access flags (see {@link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see {@link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */

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jar/com/ctc/wstx/sw/OutputElement.java
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  jar/com/ctc/wstx/sw/SimpleNsStreamWriter.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-
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* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-
  jar/com/ctc/wstx/dtd/DTDAttribute.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-
  jar/com/ctc/wstx/sw/NonNsStreamWriter.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-
  jar/com/ctc/wstx/msv/GenericMsvValidator.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-
  jar/com/ctc/wstx/msv/W3CSchema.java
* /opt/cola/permits/1136703947_1613864568.23/0/woodstox-core-asl-4-1-4-sources-1-
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1.366 javax-json-api 1.1.4

1.367 spring-context-support 3.0.5.RELEASE
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  jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/ui/velocity/VelocityEngineFactory.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
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  jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/mail/SimpleMailMessage.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/quartz/QuartzJobBean.java

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  jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/mail/javamail/InternetAddressEditor.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/mail/MailMessage.java

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  jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/mail/MailSender.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
  jar/org/springframework/ui/velocity/CommonsLoggingLogSystem.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-
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* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/javamail/MimeMessagePreparator.java
* /opt/cola/permits/1149231346_1632505938.65/0/spring-context-support-3-0-5-release-sources-3-jar/org/springframework/mail/JavaMailSender.java

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# Defaults for the Java Activation Framework
# Additional extensions registered in this file:
# text/plain c c++ pl cc h

# text/html htm HTML HTM
text/plaintxt TXT TEXT java c c++ pl cc h
image/gif GIF
image/ief
image/jpeg jpg jpeg JPG
image/tiff tif
image/x-xwindowdumpxwd
application/postscriptai eps ps
application/rtf
application/x-texex
application/x-texinfo texi
application/x-troff tr roff
audio/basicau
audio/midimidi mid
audio/x-aifcaifc
audio/x-xiffaifc aiff
audio/x-mpegmpg mpg
audio/x-wavwav
video/mpegmpg mpg mpe
video/quicktimeqvt mov
video/x-msvideoavi

# Additional file types adapted from
# http://www.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by Ian Graham.

# TEXT TYPES

text/x-speechtalk
# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap
# X-Windows pixelmap (8-bit color)
image/x-xpixmap
# Portable Network Graphics
image/x-png
# Image Exchange Format (RFC 1314)
image/ief
# JPEG
image/jpeg
# RGB
image/rgb
# Group III Fax (RFC 1494)
image/g3fax
# X Windowdump format
image/x-xwindowdump
# Macintosh PICT format
image/x-pict
# PPM (UNIX PPM package)
image/x-portable-pixmapppm
# PGM (UNIX PPM package)
image/x-portable-graymppgm
# PBM (UNIX PPM package)
image/x-portable-bitmappbm
# PNM (UNIX PPM package)
image/x-portable-anymappnm
# Microsoft Windows bitmap
image/x-ms-bmp
# CMU raster
image/x-cmu-rasterras
# Kodak Photo-CD
image/x-photo-cdpcd
# Computer Graphics Metafile
image/cgm
cmgm
# CALS Type 1 or 2
image/x-calsmil cal
# Fractal Image Format (Iterated Systems)
image/fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsf
# CMX vector image (Corel)
image/x-cmxcmx
# Wavelet-compressed (Summus)
image/waveletwi
# AutoCad Drawing (SoftSource)
image/vnd.dwg
dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf
dxf
# Simple Vector Format (SoftSource)
image/vnd.svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic""audio - 8-bit u-law PCM
audio/basic
t snd
# Macintosh audio format (AIpple)
audio/x-aiff
aiff aifc
# Microsoft audio
audio/x-wav
# MPEG audio
audio/x-mpeg
# MPEG-2 audio
audio/x-mpeg-2
# compressed speech (Echo Speech Corp.)
audio/echospeches
# Toolvox speech audio (Voxware)
audio/voxwarevox
# RapidTransit compressed audio (Fast Man)
application/fastmanlcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio
# MIDI music data
x-music/x-midi
# Koan music data (SSeyo)
application/vnd.koanskp
# Speech synthesis data (MVP Solutions)
text/x-speech

# VIDEO TYPES

# MPEG video
video/mpeg
mpeg mpg mpe
# MPEG-2 video
video/mpeg-2
mpv2 mp2v
# Macintosh Quicktime
video/quicktime
mov
# Microsoft video
video/x-msvideo
# SGI Movie format
video/x-sgi-movie
# VDOlive streaming video (VDOnet)
video/vnd.vivo
# Vivo streaming video (Vivo software)
video/vnd.vivo

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscript ai eps ps
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif
# Troff document
application/x-troff tr roff
# Troff document with MAN macros
application/x-troff-man
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-ms
# LaTeX document
application/x-latex latex
# Tex/LateX document
application/x-tex tex
# GNU TexInfo document
application/x-texinfo texinfo texi
# TeX dvi format
application/x-dvi dvi
# MS word document
application/msword DOC
# Office Document Architecture
application/oda oda
# Envoy Document
application/envoy evy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
# 4.3BSD tar format
application/x-tartar
# POSIX tar format
application/x-ustar
# Old CPIO format
application/x-hcpiobcpio
# POSIX CPIO format
application/x-cpio
# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffitsit sea
# Fractal Image Format
application/fractalsfif
# "Binary UUencoded"
application/octet-stream uu
# PC executable
application/octet-stream exe
# "WAIS "sources"
application/x-wais-sources src ws src
# NCSA HDF data format
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript ls mocha
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash spl
# mBED multimedia data (mBED)
application/mbedlet mbed
# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad
# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpointppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asapanasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-streamexe com
# Pointcast news data (Pointcast)
application/x-pcnpncn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installlinn
# Carbon Copy - remote control/access (Microcom)
application/cccvccv
# Spreadsheets (Visual Components)
workbook/formulaonets

# 2D/3D DATA/VIRTUAL REALITY TYPES
# VRML data file
x-world/x-vrmlvrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvrim
# Play3D 3d scene data (Play3D)
application/x-p3dp3d
# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr
# WebActive 3d data (Plastic Thought)
x-world/x-wvrwvr
# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematicama
# Computational meshes for numerical simulations
x-model/x-meshmsh
# Vis5D 5-dimensional data
application/vis5d5d
# IGES models -- CAD/CAM (CGM) data
application/igesigs
# Autocad WHIP vector drawings
drawing/x-dwfdwf

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1.368 xerces-j 2.9.1

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jar/org/springframework/beans/factory/access/BootstrapException.java
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jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java
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  jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java
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  jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
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  jar/org/springframework/beans/PropertyAccessor.java
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  jar/org/springframework/beans/ConversionNotSupportedException.java
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* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
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* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans.factory/config/AbstractFactoryBean.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans.factory/config/AbstractBeanDefinitionReader.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
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* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans.factory/config/BeanDefinitionVisitor.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans.factory/config/BeanDefinitionReaderUtils.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans.factory/config/PropertyPathFactoryBean.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans.factory/support/ManagedMap.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
jar/org/springframework/beans.factory/support/AutowiredUtils.java
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  jar/org/springframework/beans/factory/support/ManagedSet.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
  jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
  jar/org/springframework/beans/factory/support/FactoryBeanRegistrySupport.java
* /opt/cola/permits/1138627730_1614300212.6/0/spring-beans-3-0-0-release-sources-2-
  jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
1.371 commons-dbcp 2.7.0

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depends=
makedepends=
subpackages="$pkgname-dev"

_buildddir="$srcdir"/libart_lgpl-$pkgver
build() {
cd "$_buildddir"
./configure --prefix=/usr || return 1
make || return 1
}

package() {
cd "$_buildddir"
make DESTDIR="$pkgdir" install || return 1
}
md5sums="08559ff3c67fd95d57b0c5e91a6b4302  libart_lgpl-2.3.21.tar.bz2"

1.376 nghttp2 1.46.0-r0

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1.382 beanshell 2.0b4

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/**
Print the string value of the argument, which may be of any type.
If beanshell is running interactively, the output will always go to the
command line, otherwise it will go to System.out.
<p>
Most often the printed value of an object will simply be the Java
toString() of the object. However if the argument is an array the contents
of the array will be (recursively) listed in a verbose way.
<p>
Note that you are always free to use System.out.println()
instead of print().
*/

Found in path(s):
*/opt/cola/permits/1000060130_1646171457.83/0/bsh-2-0b4-jar/bsh/commands/print.bsh

1.383 cglib-nodep 3.2.5

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1.385 activemq-broker 5.15.9

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1.386 ojdbc 6

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1.387 python-setuptools 47.1.0

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1.388 jetty-util 8.1.7.v20120910

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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/ajax/JSONObjectConvertor.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/PatternMatcher.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/Utf8StringBuffer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/preventers/SecurityProviderLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/resource/BadResource.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources.jar/org/eclipse/jetty/util/preventers/LDAPLeakPreventer.java
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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ConcurrentHashSet.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/MultiException.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/LazyList.java
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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/AbstractLeakPreventer.java
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* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/TypeUtil.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/component/AbstractLifeCycle.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/MultipartOutputStream.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/ByteArrayListISO8859Writer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/preventers/DOMLeakPreventer.java
* /opt/cola/permits/1001043725_1646171586.55/0/jetty-util-8-1-7-v20120910-sources-jar/org/eclipse/jetty/util/resource/JarResource.java
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/*
 * @(#)UnixCrypt.java0.9 96/11/25
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard [@link java.lang.Appendable] and provides methods to append UTF-8 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to [@link #append(byte)] may be needed before state a character is appended to the string buffer.
The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
http://bjoern.hoehrmann.de/utf-8/decoder/dfa/

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1.392 jandex 2.4.2.Final

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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/DotName.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Type.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInternal.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/NameTable.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/JarIndexer.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationValue.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexView.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationInstance.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/CompositeIndex.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Main.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Result.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriter.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/JandexAntTask.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReader.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexReaderV1.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/PackedDataOutputStream.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Index.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfo.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterV1.java
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* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/VoidType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ThrowsTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ArrayType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/WildcardType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ParameterizedType.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeVariable.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeParameterTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/GenericSignatureParser.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/MethodInternal.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/IndexWriterImpl.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/AnnotationTargetFilterCollection.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/Utils.java
* /opt/cola/permits/1258847893_1643112599.64/0/jandex-2-4-2-final-sources-jar/org/jboss/jandex/EmptyTypeTarget.java
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1.393 activation 1.1
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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

-----
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-jsp-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
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1.396 py3-certifi 2020.4.5.1-r0
1.396.1 Available under license :
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCsfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.397 jackson-annotations 2.9.0
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1.398 jackson-module-parameter-names

2.13.2

1.398.1 Available under license:
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1.399 apache-log4j 1.2.17

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1.401 antlr-runtime 4.7

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 */

lexer grammar XPathLexer;

tokens { TOKEN_REF, RULE_REF }

/*
path : separator? word (separator word)* EOF ;

separator
:
  '/' '!'
  '//' '!'
  '/'
  '//' ;

word:TOKEN_REF
   |RULE_REF
   |STRING
   |'*'
   ;
*/

ANYWHERE : '/' ;
ROOT : '/' ;
WILDCARD : '*' ;
BANG : '!' ;

ID:NameStartChar NameChar*
{
  String text = getText();
  if ( Character.isUpperCase(text.charAt(0)) ) setType(TOKEN_REF);
  else setType(RULE_REF);
}

fragment
NameChar    : [A-Za-z0-9_] \\
| ~[\u0000-\u007F] {Character.isUnicodeIdentifierPart(_input.LA(-1))}? ;

fragment
NameStartChar  \\
: [A-Za-z] \\
| ~[\u0000-\u007F] {Character.isUnicodeIdentifierStart(_input.LA(-1))}? ;

STRING : "" .*? "" ;

//WS : [ \t\r\n]+ -> skip ;

Found in path(s):
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.g4
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jar/org/antlr/v4/runtime/dfa/AcceptStateInfo.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/dfa/RuleDependency.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/RuleDependency.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/RuleDependency.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/RuleDependency.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/dfa/AcceptStateInfo.java
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* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/FailedPredicateException.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/ParserRuleContext.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/WildcardTransition.java
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* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/ParserRuleContext.java
* /opt/cola/permits/1252025794_1641858783.91/0/antlr4-runtime-4-7-sources-
jar/org/antlr/v4/runtime/atn/WildcardTransition.java

1.402 hibernate-validator 5.3.6.Final

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 * Hibernate Validator, declare and validate application constraints
 *
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 */

/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 * 
 * @param executable The executable of interest.
 * 
 * @return A list with parameter meta data for the given executable.
 */
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/*
 * A method-level constraint, that evaluates a script expression against the
 * annotated method or constructor. This constraint can be used to implement
 * validation routines that depend on several parameters of the annotated
 * executable.
 */

/*
 * Script expressions can be written in any scripting or expression language,
 * for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a> compatible engine can be
 * found on the classpath. To refer to a parameter within the scripting
 * expression, use its name as obtained by the active
 * <code>@link javax.validation.ParameterNameProvider</code>. By default, <code>@arg0</code>, <code>@arg1</code> etc.
 * will be used as parameter names.
 */

/*
 * The following listing shows an example using the JavaScript engine which
 * comes with the JDK:
 */

/*
 * Can be specified on any method or constructor.
 */

/*
 * @author Gunnar Morling
 */
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/util/TypeHelper.java

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  jar/org/hibernate/validator/spi/resceloading/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/constraints/br/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/constraintvalidation/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/group/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/metadata/package.html
* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/engin
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* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/location/ConstraintLocation.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/config/context/ParameterConstraintMappingContextImpl.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/descriptor/GroupConversionDescriptorImpl.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/MessageState.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/URLValidator.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/metadata/facets/Validatable.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/config/defs/NotEmptyDef.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/constraintvalidators/hv/EmailValidator.java
* /opt/cola/permits/110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-jar/org/hibernate/validator/internal/config/defs/NotEmptyDef.java
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*/
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* /opt/cola/permits/1110667112_1606842300.21/0/hibernate-validator-5-3-6-final-sources-5-
  jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

1.403 bcel 2.7.2

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*/
/*
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
* This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* See also: org/apache/xalan/res/XSLTInfo.properties for information about the version of the XSLT spec we support.
* @xsl.usage general */
public class Version {

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version */
public static String getVersion() {
    return getProduct() + "+getImplementationLanguage()+" +
    getMajorVersionNum()+"."+getReleaseVersionNum()+"."+
    (getDevelopmentVersionNum() > 0) ?
    ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[]) {
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct() {
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage() {
    return "Java";
/*================================================================-------------
 * Major version number.
 * Version number. This changes only when there is a
 *    significant, externally apparent enhancement from
 *    the previous release. 'n' represents the n'th
 *    version.
 *    Clients should carefully consider the implications
 *    of new versions as external interfaces and behaviour
 *    may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/*================================================================-------------
 * Release Number.
 * Release number. This changes when:
 *    - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *    - API or behaviour change.
 *    - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/*================================================================-------------
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *    drop applied to a specific release and contains
 *    fixes for defects reported. It maintains compatibility
 *    with the release and contains no API changes.
 *    When missing, it designates the final and complete
 *    development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}
Development Drop Number.
Optional identifier designates development drop of
  a specific release. D01 is the first development drop
  of a new release.

Development drops are works in progress towards a
  completed, final release. A specific development drop
  may not completely implement all aspects of a new
  feature, which may take several development drops to
  complete. At the point of the final drop for the
  release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as
  well as defect fixes. 'D' drops may not be as stable as
  the final releases.

```
public static int getDevelopmentVersionNum()
{
  try {
    if ((new String("@version.DEVELOPER@").length() == 0)
      return 0;
    else
      return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
    return 0;
  }
}
```

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```
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```
* limitations under the License.
*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

Found in path(s):
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StopParseException.java
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Found in path(s):
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
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* limitations under the License.
*/
/
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{
  /**
   * Get the basic version string for the current Serializer.
   * Version String formatted like
/**
 * Name of product: Serializer.
 */

public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */

public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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 */

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.090/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /opt/cola/permits/1134796662_1613422294.090/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.090/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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*/

// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties

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 * limitations under the License.
 */

/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

package org.apache.xalan.xsltc.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xml.xalan.dom.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.DOM;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {:
/**
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);

/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xsltc;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
  _parser = parser;
  _xsltc = parser.getXSLTC();
  _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "*" and "@*". The last two
 * patterns are expanded as "*" and 
 * "*". The last two
 * patterns are expanded as "*" and 
 * "@*". This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 * /
 * public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
 * int nodeType;

 if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
    (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
    }

    else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();

    return new StepPattern(axis, nodeType, predicates);
    }

    else if (test instanceof NodeObject) {
    nodeType = ((NodeObject) test).nodeType();

    return new StepPattern(axis, nodeType, predicates);
    }

    else if (test instanceof QName) {
    NodeObject nodeObject = (QName) test;

    nodeType = nodeObject.nodeType();

    return new StepPattern(axis, nodeType, predicates);
    }

    else {
    throw new IllegalArgumentException("Unsupported object type: 
            ", test);"; // TODO: should provide more info."
    }
}
else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
       .nodeType = (name.toString().equals("*")) ? -1 :
            _xslt.registerNamespacePrefix(name);
    }
    else {
        final String uri = name.getNamespace();
        final String local = name.getLocalPart();
        final QName namespace_uri =
            _parser.getQNameIgnoreDefaultNs("namespace-uri");

        // Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
        if (uri != null && (local.equals("*") || local.equals("@*"))) {
            if (predicates == null) {
                predicates = new Vector(2);
            }
            // Priority is set by hand if no other predicates exist
            setPriority = (predicates.size() == 0);
            predicates.add(
                new Predicate(
                    new EqualityExpr(Operators.EQ,
                        new NamespaceUriCall(namespace_uri),
                        new LiteralExpr(uri)));
            }
        }
        if (local.equals("*")) {
            nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
                NodeTest.ELEMENT;
        }
        else if (local.equals("@*")) {
            nodeType = NodeTest.ATTRIBUTE;
        }
        else {
            nodeType = (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name) :
                _xslt.registerElement(name);
        }
    }

    final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
        result.setPriority(-0.25);
    }
public int findNodeType(int axis, Object test) {
    if (test == null) {  // *
        return (axis == Axis.ATTRIBUTE) ?
            NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    } else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*")) ? -1
                : _xsltc.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                    : NodeTest.ELEMENT;
            }
            else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }

        return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
            : _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 * *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
* compiled in a separate module.
*
*/

public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
                                     lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */

final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
                                      _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep");
    return rlp;
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal StepPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
   {: RESULT = pattern; :}

   | EXPRESSION Expr:expr
   {: RESULT = expr; :};

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
   {: RESULT = lpp; :}

   | LocationPathPattern:lpp VBAR Pattern:p
   {: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH
   {: RESULT = new AbsolutePathPattern(null); :}
| SLASH RelativePathPattern: rpp |
{: RESULT = new AbsolutePathPattern(rpp); :}

| IdKeyPattern: ikp |
{: RESULT = ikp; :}

| IdKeyPattern: ikp SLASH RelativePathPattern: rpp |
{: RESULT = new ParentPattern(ikp, rpp); :}

| IdKeyPattern: ikp DSLASH RelativePathPattern: rpp |
{: RESULT = new AncestorPattern(ikp, rpp); :}

| DSLASH RelativePathPattern: rpp |
{: RESULT = new AncestorPattern(rpp); :}

| RelativePathPattern: rpp |
{: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN |
{: RESULT = new IdPattern(l); parser.setHasIdCall(true); :}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN |
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN |
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern: sp |
{: RESULT = sp; :}

| StepPattern: sp SLASH RelativePathPattern: rpp |
{: RESULT = new ParentPattern(sp, rpp); :}

| StepPattern: sp DSLASH RelativePathPattern: rpp |
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern: nt |
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, null); :}

| NodeTestPattern: nt Predicates: pp |
{: RESULT = parser.createStepPattern(Axis.CHILD, nt, pp); :}
| ProcessingInstructionPattern:pip |
| : RESULT = pip; : |

| ProcessingInstructionPattern:pip Predicates:pp |
| : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt |
| : RESULT = parser.createStepPattern(axis.intValue(), nt, null); : |

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt Predicates:pp |
| : RESULT = parser.createStepPattern(axis.intValue(), nt, pp); : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip |
| : RESULT = pip; // TODO: report error if axis is attribute : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip Predicates:pp |
| : // TODO: report error if axis is attribute |
| : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : |

NodeTestPattern ::= NameTestPattern:nt |
| : RESULT = nt; : |

| NODE |
| : RESULT = new Integer(NodeTest.ANODE); : |

| TEXT |
| : RESULT = new Integer(NodeTest.TEXT); : |

| COMMENT |
| : RESULT = new Integer(NodeTest.COMMENT); : |

| PI |
| : RESULT = new Integer(NodeTest.PI); : |

NameTestPattern ::= STAR |
| : RESULT = null; : |

| QName:qn |
{ : RESULT = qn; : }

ChildOrAttributeAxisSpecifier ::= ATSIGN
{ : RESULT = new Integer(Axis.ATTRIBUTE); : }

| CHILD DCOLON
{ : RESULT = new Integer(Axis.CHILD); : }

| ATTRIBUTE DCOLON
{ : RESULT = new Integer(Axis.ATTRIBUTE); : }

Predicates ::= Predicate:p
{ :
Vector temp = new Vector();
temp.addElement(p);
RESULT = temp;
: }

| Predicate:p Predicates:pp
{ : pp.insertElementAt(p, 0); RESULT = pp; : }

Predicate ::= LBRACK Expr:e RBRACK
{ :
RESULT = new Predicate(e);
: }

/* --------------------------- Expressions --------------------------------- */

Expr ::= OrExpr:ex
{ : RESULT = ex; : }

OrExpr ::= AndExpr:ae
{ : RESULT = ae; : }

| OrExpr:oe OR AndExpr:ae
{ : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : }

AndExpr ::= EqualityExpr:e
{ : RESULT = e; : }

| AndExpr:ae AND EqualityExpr:ee
{ : RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee); : }

EqualityExpr ::= RelationalExpr:re
{ : RESULT = re; : }

| EqualityExpr:ee EQ RelationalExpr:re
{ : RESULT = new EqualityExpr(Operators.EQ, ee, re); : }
EqualityExpr::ee NE RelationalExpr::re
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};

RelationalExpr ::= AdditiveExpr::ae
{: RESULT = ae; :}

| RelationalExpr::re LT AdditiveExpr::ae
| : RESULT = new RelationalExpr(Operators.LT, re, ae); : |

| RelationalExpr::re GT AdditiveExpr::ae
| : RESULT = new RelationalExpr(Operators.GT, re, ae); : |

| RelationalExpr::re LE AdditiveExpr::ae
| : RESULT = new RelationalExpr(Operators.LE, re, ae); : |

| RelationalExpr::re GE AdditiveExpr::ae
| : RESULT = new RelationalExpr(Operators.GE, re, ae); : |

AdditiveExpr ::= MultiplicativeExpr::me
{: RESULT = me; :}

| AdditiveExpr::ae PLUS MultiplicativeExpr::me
| : RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); : |

| AdditiveExpr::ae MINUS MultiplicativeExpr::me
| : RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); : |

MultiplicativeExpr ::= UnaryExpr::ue
{: RESULT = ue; :}

| MultiplicativeExpr::me MULT UnaryExpr::ue
| : RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); : |

| MultiplicativeExpr::me DIV UnaryExpr::ue
| : RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); : |

| MultiplicativeExpr::me MOD UnaryExpr::ue
| : RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); : |

UnaryExpr ::= UnionExpr::ue
{: RESULT = ue; :}

| MINUS UnaryExpr::ue
| : RESULT = new UnaryOpExpr(ue); : |

UnionExpr ::= PathExpr::pe
{: RESULT = pe; :}
PathExpr ::= LocationPath:lp
{: RESULT = lp; :}

| FilterExpr:fexp
{: RESULT = fexp; :}

| FilterExpr:fexp SLASH RelativeLocationPath:rlp
{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp
{: |
   // Expand '// into '/descendant-or-self::node()' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
       parser.isElementAxis(((Step) rlp).getAxis()))
   {
       nodeType = DTM.ELEMENT_NODE;
   }
   final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
   FilterParentPath fpp = new FilterParentPath(fexp, step);
   fpp = new FilterParentPath(fpp, rlp);
   if (fexp instanceof KeyCall == false) {
       fpp.setDescendantAxis();
   }
   RESULT = fpp;
:};

LocationPath ::= RelativeLocationPath:rlp
{: RESULT = rlp; :}

| AbsoluteLocationPath:alp
{: RESULT = alp; :};

RelativeLocationPath ::= Step:step
{: RESULT = step; :}

| RelativeLocationPath:rlp SLASH Step:step
{: |
   if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
       RESULT = step; // Remove '.' from the middle
   }
else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp;  // Remove 'l.' from the end
}
else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}
}

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

AbsoluteLocationPath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}

| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}

| AbbreviatedAbsoluteLocationPath:aalp
{: RESULT = aalp; :};

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSlash Step:step
{:}
final Step right = (Step)step;
final int  axis   = right.getAxis();
final int  type   = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress './/child:E' into 'descendant::E' - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
            RESULT = right;
        }
    }
    else {
        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
    }
}
else {
    // Expand './/step' -> 'descendant-or-self::*//step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF, DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    }
else {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step mid = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  ParentLocationPath ppl = new ParentLocationPath(mid, right);
  RESULT = new ParentLocationPath(left, ppl);
}

else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::*//step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF,
    DTM.ELEMENT_NODE, null);
  ParentLocationPath ppl = new ParentLocationPath(middle, right);
  RESULT = new ParentLocationPath(left, ppl);
}
else {
  // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
  RelativeLocationPath left = (RelativeLocationPath)rlp;
  Step middle = new Step(Axis.DESCENDANTORSELF,
    DOM.NO_TYPE, null);
  ParentLocationPath ppl = new ParentLocationPath(middle, right);
  RESULT = new ParentLocationPath(left, ppl);
}

};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
  {
    // Expand '//' into '/descendant-or-self::node()' or
    // into /descendant-or-self::*/
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
      {
        nodeType = DTM.ELEMENT_NODE;
      }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT = new AbsoluteLocationPath(parser.insertStep(step,
      (RelativeLocationPath) rlp));
  };

Step ::= NodeTest:ntest
  {
  

if (ntest instanceof Step) {
    RESULT = (Step)ntest;
} else {
    RESULT = new Step(Axis.CHILD,
                       parser.findNodeType(Axis.CHILD, ntest),
                       null);
}

<table>
<thead>
<tr>
<th>NodeTest:ntest Predicates:pp</th>
</tr>
</thead>
<tbody>
<tr>
<td>: if (ntest instanceof Step) {</td>
</tr>
<tr>
<td>Step step = (Step)ntest;</td>
</tr>
<tr>
<td>step.addPredicates(pp);</td>
</tr>
<tr>
<td>RESULT = (Step)ntest;</td>
</tr>
<tr>
<td>} else {</td>
</tr>
<tr>
<td>RESULT = new Step(Axis.CHILD,</td>
</tr>
<tr>
<td>parser.findNodeType(Axis.CHILD, ntest), pp);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AxisSpecifier:axis NodeTest:ntest Predicates:pp</th>
</tr>
</thead>
<tbody>
<tr>
<td>{: RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), pp);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

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<tr>
<th>AxisSpecifier:axis NodeTest:ntest</th>
</tr>
</thead>
<tbody>
<tr>
<td>{: RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), null);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AbbreviatedStep:abbrev</th>
</tr>
</thead>
<tbody>
<tr>
<td>{: RESULT = abbrev; :};</td>
</tr>
</tbody>
</table>

AxisSpecifier ::= AxisName:an DCOLON
{: RESULT = an; :}

<table>
<thead>
<tr>
<th>ATSIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>{: RESULT = new Integer(Axis.ATTRIBUTE); :};</td>
</tr>
</tbody>
</table>

AxisName ::= ANCESTOR
{: RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF |
| ATTRIBUTE |
| : RESULT = new Integer(Axis.ATTRIBUTE); |

| CHILD |
| : RESULT = new Integer(Axis.CHILD); |

| DESCENDANT |
| : RESULT = new Integer(Axis.DESCENDANT); |

| DESCENDANTORSELF |
| : RESULT = new Integer(Axis.DESCENDANTORSELF); |

| FOLLOWING |
| : RESULT = new Integer(Axis.FOLLOWING); |

| FOLLOWINGSIBLING |
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); |

| NAMESPACE |
| : RESULT = new Integer(Axis.NAMESPACE); |

| PARENT |
| : RESULT = new Integer(Axis.PARENT); |

| PRECEDING |
| : RESULT = new Integer(Axis.PRECEDING); |

| PRECEDINGSIBLING |
| : RESULT = new Integer(Axis.PRECEDINGSIBLING); |

| SELF |
| : RESULT = new Integer(Axis.SELF); |

AbbreviatedStep ::= DOT
  { : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); |

| DDOT |
| : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); |

FilterExpr ::= PrimaryExpr:primary
  { : RESULT = primary; |

| PrimaryExpr:primary Predicates:pp |
| : RESULT = new FilterExpr(primary, pp); |

PrimaryExpr ::= VariableReference:vr
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);

long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
} else {
if (num.doubleValue() == -0)
    RESULT = new RealExpr(num.doubleValue());
else if (num.intValue() == 0)
    RESULT = new IntExpr(num.intValue());
else if (num.doubleValue() == 0.0)
    RESULT = new RealExpr(num.doubleValue());
else
    RESULT = new IntExpr(num.intValue());
}

RESULT = new RealExpr(num.doubleValue());
VariableReference ::= DOLLAR VariableName:varName

// An empty qname prefix for a variable or parameter reference
// should map to the null namespace and not the default URI.
SyntaxTreeNode node = parser.lookupName(varName);

if (node != null) {
    if (node instanceof Variable) {
        RESULT = new VariableRef((Variable)node);
    } else if (node instanceof Param) {
        RESULT = new ParameterRef((Param)node);
    } else {
        RESULT = new UnresolvedRef(varName);
    }
}
if (node == null) {
    RESULT = new UnresolvedRef(varName);
}

FunctionCall ::= FunctionName:fname LPAREN RPAREN

if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
    RESULT = new CurrentCall(fname);
} else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, parser.EmptyArgs);
} else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
} else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
} else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
} else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
    RESULT = new BooleanExpr(false);
} else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
} else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN |
| : |  |
| if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) | { |
|     RESULT = new ConcatCall(fname, argl);
| }
| else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) | { |
|     RESULT = new NumberCall(fname, argl);
| }
| else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) | { |
|     parser.setMultiDocument(true);
|     RESULT = new DocumentCall(fname, argl);
| }
| else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) | { |
|     RESULT = new StringCall(fname, argl);
| }
| else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) | { |
|     RESULT = new BooleanCall(fname, argl);
| }
| else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) | { |
|     RESULT = new NameCall(fname, argl);
| }
| else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) | { |
|     RESULT = new GenerateIdCall(fname, argl);
| }
| else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) | { |
|     RESULT = new NotCall(fname, argl);
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}

else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) {
    RESULT = new CeilingCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName(Classes.TRANSLET_URI, "xslt", "cast").equals(fname)) {

RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
;

NonemptyArgumentList ::= Argument:arg
{:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}

| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

FunctionName ::= QName:fname
{:
    RESULT = fname;
:};

VariableName ::= QName:vname
{:
    RESULT = vname;
:};

Argument ::= Expr:ex
{: RESULT = ex; :};

NodeTest ::= NameTest:nt
{: RESULT = nt; :}

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal:l RPAREN
{: QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
new NameCall(name),
new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

| PI
{: RESULT = new Integer(NodeTest.PI); :}

NameTest ::= STAR
{: RESULT = null; :}

| QName:qn
{: RESULT = qn; :};

QName ::= QNAME:qname
{: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

| DIV
{: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

| MOD
{: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY
{: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); :}
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| FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceeding"); :}

| PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceeding-sibling"); :}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xslt/compiler/xpath.cup

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

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*/

// is found, then throw a special exception in order to terminate
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.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.
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* limitations under the License.
*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
No license file was found, but licenses were detected in source scan.

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 * limitations under the License.
 */
/*
 */
/* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $ */

/*@author Jacek Ambroziak*/
/*@author Santiago Pericas-Geertsen*/
/*@author Morten Jorgensen*/

package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%cunicode
%cclass XPathLexer
%yyeof

{%
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '	' || c == '' || c == '
'  || c == '');
    }

}
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    int index = yy_buffer_index;
    // Peek in the input buffer without changing the internal state
    int yy_buffer_read = yy_buffer_index;
    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }
    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }
    // Return symbol if next token is '::' or '(
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
           yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLSH:
        case sym.VBAR:
    }
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
case sym.DCOLON:
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
case sym.AND:
case sym.OR:
case sym.MOD:
case sym.DIV:
case sym.MULT:
case sym.SLASH:
case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
last = ss;
return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
last = ss;
return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
last = ss;
return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
last = ss;
return new Symbol(ss, value);
}

% { 
%eofval{
return newSymbol(sym.EOF);
%eofval}
%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DC\u03DE\u03E0-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045E-\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F8-\u04F9\u0531-\u0556\u0559-\u0561-\u0586-\u05D0-\u05EA\u05F0-\u05F2-\u0621-\u063A\u0641-\u064A-\u0671-\u06B7-\u06BA-\u06BE\u06CC-\u06DE-\u06D3-\u06D5-\u06E5-\u06E6-\u0905-\u0939-\u093D-\u0958-\u0961-\u0985-\u098C-\u099F-\u0999-\u09A8-\u09AB-\u09BD\u09B6-\u09BF-\u09D4-\u09E1-\u09F1-\u0A05-\u0A0A-\u0A0F-\u0A10-\u0A13-\u0A28-\u0A2A-\u0A30-\u0A32-\u0A33-\u0A35-\u0A36-\u0A38-\u0A39-\u0A5C-\u0A5E-\u0A72-\u0A74-\u0A85-\u0A8B-\u0A8D-\u0A91-\u0A93-\u0A95-\u0A97-\u0A99-\u0A9C-\u0AA1-\u0AA7-\u0AA9-\u0AB2-\u0AB3-\u0AB5-\u0AB9-\u0ABD-\u0AE0-\u0B05-\u0B0C-\u0B0F-\u0B10-\u0B13-\u0B28-\u0B32-\u0B33-\u0B36-\u0B39-\u0B3D-\u0B5C-\u0B5D-\u0B5F-\u0B61-\u0B85-\u0B8A-\u0B8E-\u0B90-\u0B92-\u0B95-\u0B99-\u0B9A-\u0B9C-\u0B9E-\u0B9F-\u0BA3-\u0BA4-\u0BA8-\u0BAE-\u0BB5-\u0BB7-\u0BB9-\u0C05-\u0C0C-\u0C0E-\u0C10-\u0C12-\u0C28-\u0C2A-\u0C33-\u0C35-\u0C39-\u0C60-\u0C61-\u0C85-\u0C88-\u0C8E-\u0C90-\u0C92-\u0CA8-\u0CBB-\u0CB5-\u0CB9-\u0CDE-\u0CE0-\u0CE1-\u0D05-\u0D0C-\u0D0E-\u0D10-\u0D12-\u0D28-\u0D2A-\u0D39-\u0D60-\u0D61-\u0E01-\u0E2E-\u0E30-\u0E32-\u0E33-\u0E40-\u0E45-\u0E81-\u0E82-\u0E84-\u0E87-\u0E88-\u0E8A-\u0E8D-\u0E94-\u0E97-\u0E99-\u0E9F-\u0EA1-\u0EA3-\u0EA5-\u0EAA-\u0EAB-\u0EAD-
"+" { return newSymbol(sym.PLUS); }
"-" { return newSymbol(sym.MINUS); }
"div" { return disambiguateOperator(sym.DIV); }
"mod" { return disambiguateOperator(sym.MOD); }
"::" { return newSymbol(sym.DCOLON); }
"," { return newSymbol(sym.COMMA); }
"@" { return newSymbol(sym.ATSIGN); }
".." { return newSymbol(sym.DDOT); }
"|" { return newSymbol(sym.VBAR); }
"$" { return newSymbol(sym.DOLLAR); }
"//" { return newSymbol(sym.DSLASH); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
">" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+{ \n\n\n}+"()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+{ \n\n\n}+"()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+{ \n\n\n}+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction()" { return disambiguateAxisOrFunction(sym.PIPEPARAM); }
"processing-instruction"+{ \n\n\n}+"()" { return newSymbol(sym.PI); }
"or" { return disambiguateOperator(sym.OR); }
"and" { return disambiguateOperator(sym.AND); }
"child" { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute" { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor" { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following" { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
"namespace" { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent" { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding" { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self" { return disambiguateAxisOrFunction(sym.SELF); }
"[" { return newSymbol(sym.LBRACK); }
"]" { return newSymbol(sym.RBRACK); }
"(" { return newSymbol(sym.LPAREN); }
")" { return newSymbol(sym.RPAREN); }
"<PATTERN>" { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"   { initialize(); return new Symbol(sym.EXPRESSION); }
\\[^\"]\"      { return newSymbol(sym.Literal, 
                   yytext().substring(1, yytext().length() - 1)); }
\\[^\"]\"      { return newSymbol(sym.Literal, 
                   yytext().substring(1, yytext().length() - 1)); }
{Digit}+             { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+       { return newSymbol(sym.REAL, new Double(yytext())); }
"."            { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"        { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"       { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]         { /* ignore white space. */ }
.                        { throw new Exception(yytext()); }

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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 */

package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
* When missing, it designates the final and complete development drop for a release.

```
public static final int MAINTENANCE = @version.MINOR@;
```

/**
 * Development Drop Number.
 * Optional identifier designates development drop of a specific release. D01 is the first development drop of a new release.

* Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.
* Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

```
public static final int DEVELOPMENT = 0;
```

/**
 * Semantics of the version string are identical to the Xerces project.

```
public static final String S_VERSION = PRODUCT+""+LANGUAGE+""+VERSION+""+RELEASE+""+(DEVELOPMENT > 0 ? "D"+DEVELOPMENT) : (""+MAINTENANCE));
```

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xhtml/sax/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/Hashtable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/UnionIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/NthIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Stylesheet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/XSLTC.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/StartsWithCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Stylesheet.java
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<td>/org/apache/xalan/xslt/compiler/parse/AttributeSetMethodGenerator.java</td>
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<td>/org/apache/xpath/objects/XStringForChars.java</td>
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<td>/org/apache/xalan/templates/TraceListenerEx3.java</td>
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<td>/org/apache/xalan/xml/dtm/ref/ObjectFactory.java</td>
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/SubContextList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkerFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource_Filter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/TreeWalker.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/dm3/DOM3TreeWalker.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Instruction.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Parser.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/output/WriterOutputBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CallTemplate.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLETElementDef.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/jaxp/JAXPVariableStack.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Plus.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTElementDef.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/serializer/WriterOutputBuffer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/serializer/utils/SerializerMessages_cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/serializer/utils/SerializerMessages_cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/utils/DOMHelper.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/utils/res/XResources_ja_JP_HI.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/TypeCheckError.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources.cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/StepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TemplatesHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XSLOutputAttributes.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/IntStack.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CompilerException.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NamespaceUriCall.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XResources_zh_CN.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MarkerInstruction.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xpath/functions/SslSecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AbsolutePathPattern.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Attribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CopyOf.java
1.404 netty-codec-http 4.1.72.Final

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* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/WriteAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/SerializationElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/SerializationKeySnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/ElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/operations/BatchAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/ElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/writebehind/snapshots/KeySnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/transaction/ClusteredTransactionID.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-jar/org/terracotta/modules/ehcache/transaction/ClusteredTransactionID.java

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jar/org/terraceota/modules/ehcache/writebehind/operations/DeleteAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/transaction/ClusteredTransactionIDFactory.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/writebehind/operations/DeleteAllAsyncOperation.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/transaction/ReadCommittedClusteredSoftLockFactory.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/writebehind/snapshots/IdentityElementSnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/writebehind/KeyBasedOperationWrapper.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/writebehind/snapshots/IdentityKeySnapshot.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/servermap/ClusteredStoreBackend.java

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jar/org/terraceota/modules/ehcache/store/backend/StrictBackend.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/servermap/OnlineEhcacheSMLocalStore.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/value/ValueModeHandler.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/servermap/ServerMapLocalStoreFactoryImpl.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/search/ClusteredStoreSearchCommands.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/backend/ClusteredElement.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/Coherence/CacheShutdownHook.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/Coherence/CacheCoherence.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terraceota/modules/ehcache/store/servermap/EhcacheSMLocalStore.java
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jar/org/terraceota/modules/ehcache/store/operatevent/ClusterRejoinOperatorEventListener.java
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
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/**
 * An implementation of [ItemProcessor] that delegates the processing to a [CacheWriter] instance.
 * <p/>
 * Instances of this class will be used when items are processed one by one. Note that [CacheWriter] instances will not be shared across a Terracotta DSO cluster and are intended to be local on a node. They are tied to...
* an individual write behind queue. You're thus free to use local resources in an `@code CacheWriter`, like
* database connections or file handles.
*
* @author Geert Bevin
* @version $Id: CacheWriterWrapper.java 29067 2011-08-02 10:07:00Z alexsnaps $
*/

Found in path(s):
* /opt/cola/permits/1258364676_1643062167.32/0/tim-ehcache-2-x-1-9-4-sources-
jar/org/terracotta/modules/ehcache/writebehind/CacheWriterWrapper.java

1.406 hk2-api 2.6.1
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* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
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* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/eclipse/spec/SelectClauseSpecCompiled.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
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* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
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* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/eclipse/spec/SelectClauseStreamSelectorEnum.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/core/context/subselect/SubSelectActivationHolder.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/eclipse/expression/accessagg/ExprAggCountMinSketchNodeFactoryBase.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/eclipse/filter/FilterServiceGranularLockFactoryNone.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/eclipse/lookup/SubordIndexedTableLookupStrategyLocking.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-

jar/com/espertech/esper/view/window/TimeLengthBatchViewFactory.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/collection/ArrayMaxEventCollectionRO.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/epl/table/onaction/TableOnMergeViewFactory.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/epl/expression/subquery/ExprSubselectStrategy.java
* /opt/cola/permits/1138132057_1614265620.95/0/esper-5-2-0-sources-1-
jar/com/espertech/esper/dispatch/Dispatchable.java

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1.413 zlib 1.2.11 r3
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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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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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org.ow2.asm:asm-commons
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The following artifacts are ASL2 licensed.

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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1.416 protobuf-javanano 3.0.0-alpha-5
1.417 spring-context 3.0.5.RELEASE

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jar/org/springframework/context/support/MessageSourceAccessor.java
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jar/org/springframework/context/NoSuchMessageException.java
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* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3-
  jar/org/springframework/instrument/classloading/oc4j/OC4JClassLoaderAdapter.java
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  jar/org/springframework/instrument/classloading/oc4j/OC4JClassPreprocessorAdapter.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3-
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 * @link FactoryBean] that obtains a WebSphere [ @link javax.management.MBeanServer]
 * reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 * 
 * Exposes the <code>MBeanServer</code> for bean references.
 * This FactoryBean is a direct alternative to [ @link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 * 
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management/AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
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  jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3-
  jar/org/springframework/jmx/support/RemoteInvocation.java
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* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3-
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  jar/org/springframework/context/support/DefaultMessageSourceResolvable.java
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  jar/org/springframework/remoting/support/RemotingSupport.java
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  jar/org/springframework/remoting/support/RemotingSupport.java
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*/
group gUnitTestResult;

testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<
-----------------------------------------------------------------------
<title> with <num_of_test> tests
-----------------------------------------------------------------------
<num_of_failure> failures found:
<failure:{<it.header>
expected: <it.expectedResult>
actual: <it.actualResult>

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*/
group junit;

classHeader(header,junitFileName,hasTreeAdaptor,treeAdaptorPath, hasPackage,packagePath,lexerPath,parserPath,treeParserPath,isTreeGrammar) ::= <<
<header>
import org.antlr.gunit.gUnitBaseTest;

public class <junitFileName> extends gUnitBaseTest {

public void setUp() {
  <if(hasTreeAdaptor)><	><	>this.treeAdaptorPath = "<treeAdaptorPath>";<endif>
  <if(hasPackage)><	><	>this.packagePath = "<packagePath>";<endif>
  this.lexerPath = "<lexerPath>";
  this.parserPath = "<parserPath>";
  <if(isTreeGrammar)><	><	>this.treeParserPath = "<treeParserPath>";<endif>

} <\n> <\n>
>>

testTreeRuleMethod(methodName,testTreeRuleName,testRuleName,test,tokenType,expecting) ::= <<
public void <methodName>() throws Exception {
  // gunit test on line <test.line>
  Object retval = execTreeParser(<testTreeRuleName>, <testRuleName>,"<test.inputEscaped>", <test.isFile>);
  Object actual = examineExecResult(<tokenType>, retval);
  Object expecting = <expecting>;
  assertEquals("testing rule "+<testTreeRuleName>, expecting, actual);
} <\n> <\n>
>>
testTreeRuleMethod2(methodName, testTreeRuleName, testRuleName, test, returnType, expecting) ::= <<
public void <methodName>() throws Exception {
  // gunit test on line <test.line>
  <returnType> retval = (<returnType>)execTreeParser(<testTreeRuleName>, <testRuleName>,
  "<test.inputEscaped>", <test.isFile>);
  assertTrue("testing rule "+<testTreeRuleName>, <expecting>);
} }\n
>>

testRuleMethod(isLexicalRule, methodName, testRuleName, test, tokenType, expecting) ::= <<
public void <methodName>() throws Exception {
  // gunit test on line <test.line>
  Object retval = <if(isLexicalRule)>execLexer<else>execParser<endif>(<testRuleName>, <test.line>,
  "<test.inputEscaped>", <test.isFile>);
  Object actual = examineExecResult(<tokenType>, retval);
  Object expecting = <expecting>;
  assertEquals("testing rule "+<testRuleName>, expecting, actual);
} }\n
>>

testRuleMethod2(methodName, testRuleName, test, returnType, expecting) ::= <<
public void <methodName>() throws Exception {
  // gunit test on line <test.line>
  <returnType> retval = (<returnType>)execParser(<testRuleName>, <test.line>, "<test.inputEscaped>", <test.isFile>);
  assertTrue("testing rule "+<testRuleName>, <expecting>);
} }\n
>>

Found in path(s):
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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/ITestCaseOutput.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/RunnerController.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCase.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/WorkSpaceController.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestSuite.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/IController.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseView.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestSuiteFactory.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/runner/gUnitAdapter.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/runner/TestSuiteAdapter.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseOutputResult.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/runner/ParserLoader.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/runner/NotifiedTestExecuter.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/ITestCaseInput.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseOutputAST.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseOutputStdOut.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseOutputReturn.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/model/TestCaseInputMultiString.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/AbstractInputEditor.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/swingui/AbstractInputEditor.java
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* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/gUnitExecutor.java
* /opt/cola/permits/1176010023_1624571363.14/0/gunit-3-5-2-sources-1-jar/org/antlr/gunit/Interp.java

1.422 bouncycastle-fips 1.0.2
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1.423 slf4j-log4j 1.5.8-PATCHED

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1.424 spring-framework 2.5.6.SEC02

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1.425 aspect-j 1.6.2.RELEASE

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package zipcompare;

import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
import java.io.IOException;
import java.io.InputStream;
public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
        {
            System.out.println("Usage: zipcompare [file1] [file2]");
            System.exit(1);
        }
ZipFile file1;
try {
    file1 = new ZipFile(args[0]);
} catch (IOException e) {
    System.out.println("Could not open zip file "+args[0]+": "+e);
    System.exit(1);
    return;
}

ZipFile file2;
try {
    file2 = new ZipFile(args[1]);
} catch (IOException e) {
    System.out.println("Could not open zip file "+args[0]+": "+e);
    System.exit(1);
    return;
}

System.out.println("Comparing "+args[0]+" with "+args[1]+":");

Set set1 = new LinkedHashSet();
for (Enumeration e = file1.entries(); e.hasMoreElements(); )
    set1.add(((ZipEntry)e.nextElement()).getName());

Set set2 = new LinkedHashSet();
for (Enumeration e = file2.entries(); e.hasMoreElements(); )
    set2.add(((ZipEntry)e.nextElement()).getName());

int errcount = 0;
int filecount = 0;
for (Iterator i = set1.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    if (!set2.contains(name))
    {
        System.out.println(name + " not found in " + args[1]);
        errcount += 1;
        continue;
    }

    try
    {
        set2.remove(name);
        if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
            {
                System.out.println(name + " does not match");
                errcount += 1;
                continue;
            }
    }
    catch (Exception e)
    {
        System.out.println(name + ": IO Error "+ e);
        e.printStackTrace();
        errcount += 1;
        continue;
    }
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException
{
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;

    try
    {
        while (!done1)
        {
            int off1 = 0;
            int off2 = 0;

            while (off1 < buf1.length)
            {
                int count = stream1.read(buf1, off1, buf1.length - off1);
                if (count < 0)
                {
                    done1 = true;
                    break;
                }
                off1 += count;
            }
            while (off2 < buf2.length)
            {
                int count = stream2.read(buf2, off2, buf2.length - off2);
                if (count < 0)
                {
                    done2 = true;
                }
            }
        }
    }
    catch (IOException e)
    {
        System.out.println("Problem reading streams, aborting.");
        System.exit(1);
    }
}
break;
}
off2 += count;
}
if (off1 != off2 || done1 != done2)
    return false;
for (int i = 0; i < off1; i++)
{
    if (buf1[i] != buf2[i])
        return false;
}
return true;
}
finally { stream1.close(); stream2.close(); }
}

1.432 openssl 1.1.1i

1.432.1 Available under license :

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The End

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* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/context/servlet/WebFlow1FlowUrlHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/validation/ValidationHelper.java

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* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/model/SetModel.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/builder/FlowBuilderContext.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/support/TransitionExecutingFlowExecutionExceptionHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/core/AnnotatedObject.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/execution/EnterStateVetoException.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/conversation/Conversation.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/core/collection/CollectionUtils.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/execution/repository/snapshot/SerializedFlowExecutionSnapshotFactory.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/context/portlet/PortletRequestParameterMap.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/mvc/builder/MvcViewFactoryCreator.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/mvc/portlet/AbstractFlowHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/registry/FlowModelHolder.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/mvc/portlet/AbstractFlowHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/support/ActionTransitionCriteria.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/conversation/ConversationException.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/action/CompositeAction.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/engine/support/TransitionCriteriaChain.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/portlet/FlowHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/portlet/FlowHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/view/AbstractMvcView.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/context/portlet/PortletContextMap.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/portlet/PortletMvcViewFactory.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/view/AbstractMvcView.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/context/ExternalContextHolder.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/core/collection/AttributeMapBindingEvent.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/core/collection/ParameterMap.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/engine/builder/support/FlowBuilderInterface.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/model/ActionStateModel.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/servlet/FlowHandler.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3.jar/org/springframework/webflow/mvc/servlet/ServletMvcViewFactory.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/test/MockAction.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/invc/view/FlowViewResolver.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/model/AbstractTransitionableStateMachine.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/execution/repository/support/CompositeFlowExecutionKey.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/execution/repository/snapshot/SnapshotCreationException.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/action/DispatchMethodInvoker.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/model/IfModel.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/config/FlowBuilderServicesBeanDefinitionParser.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/model/builder/xml/DefaultDocumentLoader.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/engine/flow/AbstractMvcViewFactory.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/execution/repository/impl/DefaultFlowExecutionRepository.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/execution/repository/impl/SimpleFlowExecutionSnapshotGroup.java
* /opt/cola/permits/1136703279_1613864735.0/0/spring-webflow-2-0-8-release-sources-3-jar/org/springframework/webflow/context/portlet/PortletSessionMap.java

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1.434 txw2 2.2.11

1.435 aspect-j 1.5.4

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Manifest-Version: 1.0

Name: org/aspectj/lang/
Specification-Title: AspectJ Runtime Classes
Specification-Version: 1.5
Specification-Vendor: aspectj.org
Implementation-Title: org.aspectj.tools
Implementation-Version: 1.5.4
Implementation-Vendor: aspectj.org
Bundle-Name: AspectJ
Bundle-Version: 1.5
Import-Package: org.aspectj.lang.org.aspectj.lang.reflect.org.aspectj.runtime
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Found in path(s):
* /opt/cola/permits/1000749932_1610455628.3/0/aspectjrt-1-5-4-jar/META-INF/MANIFEST.MF

1.436 markupsafe 1.1.1-1.ph4
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* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarkupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXl5Eaz/MarkupSafe-1.1.1/setup.py
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Metadata-Version: 1.2
Name: MarkupSafe
Version: 1.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: The Pallets Team
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Description: MarkupSafe

==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing
---------

Install and update using `pip`_

.. code-block:: text

   pip install -U MarkupSafe


Examples
--------

.. code-block:: pycon

   >>> from markupsafe import Markup, escape
   >>> # escape replaces special characters and wraps in Markup
   >>> escape('"<script>alert(document.cookie);</script>"')
   Markup(u'"<script>alert(document.cookie);</script>"')
   >>> # wrap in Markup to mark text "safe" and prevent escaping
The Pallets organization develops and supports MarkupSafe and other libraries that use it. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`.

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Links
-----

* Website: https://palletsprojects.com/p/markupsafe/
* Documentation: https://markupsafe.palletsprojects.com/
* License: `BSD-3-Clause <https://github.com/pallets/markupsafe/blob/master/LICENSE.rst>`_
* Releases: https://pypi.org/project/MarkupSafe/
* Code: https://github.com/pallets/markupsafe
* Issue tracker: https://github.com/pallets/markupsafe/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/markupsafe
  * Windows: https://ci.appveyor.com/project/pallets/markupsafe

* Test coverage: https://codecov.io/gh/pallets/markupsafe

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7,!=3.0.*,!=3.1.*,!=3.2.*,!=3.3.*

Found in path(s):
* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarKupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXi5Eaz/MarKupSafe-1.1.1/src/MarKupSafe.egg-info/PKG-INFO
* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarKupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXi5Eaz/MarKupSafe-1.1.1/PKG-INFO

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* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarKupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXi5Eaz/MarKupSafe-1.1.1/README.rst

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* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarKupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXi5Eaz/MarKupSafe-1.1.1/src/markupsafe/_constants.py
* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarKupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXi5Eaz/MarKupSafe-1.1.1/src/markupsafe/__init__.py
* /opt/cola/permits/1175307147_1629390111.7/0/python-markupsafe-1.1.1-10.fc34.src.rpm-cosi-expand-archive-Sxiz7S3n/MarKupSafe-1.1.1.tar.gz-cosi-expand-archive-4kXi5Eaz/MarKupSafe-1.1.1/src/markupsafe/_compat.py

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/**
 * markupsafe._speedups
 * ~~~~~~~~~~~~~~~~~~~
 * C implementation of escaping for better performance. Used instead of
 * the native Python implementation when compiled.
 *
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 */
1.437 terracotta-license 1.0.5

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1.438 jackson-xc 2.13.2

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1.441 spring-jms 5.3.18

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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/AbstractListenerContainerParser.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/JmsResourceHolder.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/endpoint/JmsActivationSpecConfig.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/adapter/AbstractAdaptableMessageListener.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/annotation/JmsBootstrapConfiguration.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/core/MessagePostProcessor.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/AbstractJmsListenerContainerFactory.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/DefaultJcaListenerContainerFactory.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/ConnectionFactoryUtils.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/CachedMessageConsumer.java
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 */

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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/listener/endpoint/DefaultJmsActivationSpecFactory.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/listener/AbstractMessageListenerContainer.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/annotation/JmsListenerAnnotationBeanPostProcessor.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-
jar/org/springframework/jms/connection/JmsTransactionManager.java

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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/MethodJmsListenerEndpoint.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/connection/CachingConnectionFactory.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/support/converter/MappingJackson2MessageConverter.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/DefaultMessageListenerContainer.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/adapter/MessagingMessageListenerAdapter.java
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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/listener/AbstractJmsListeningContainer.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/AbstractJmsListenerEndpoint.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/SimpleJmsListenerEndpoint.java

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* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/JmsListenerConfigUtils.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/SimpleJmsListenerContainerFactory.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/JmsNamespaceHandler.java
* /opt/cola/permits/1300032464_1649071548.57/0/spring-jms-5-3-18-sources-jar/org/springframework/jms/config/JmsListenerEndpoint.java

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1.442 pep517 0.8.2

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1.447 postgresql-common 1.1-r0

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SNMP4J 2 - AuthSHA.java

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Manifest-Version: 1.0
Implementation-Title: Netty/Resolver/DNS/Native/MacOS
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.resolver.dns.macos
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.resolver-dns-native-macos
Implementation-Version: 4.1.75.Final
Built-By: norman
Bnd-LastModified: 1646911429197
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.4.1.201501161923
Implementation-Vendor: The Netty Project
Bundle-Name: Netty/Resolver/DNS/Native/MacOS
Bundle-Version: 4.1.75.Final
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_252
Implementation-URL: https://netty.io/netty-resolver-dns-native-macos/

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Found in path(s):
* /opt/cola/permits/1302235719_1650266808.9/0/netty-resolver-dns-native-macos-4-1-75-final-jar/META-INF/maven/io.netty/netty-resolver-dns-native-macos/pom.xml

1.457 python-pip 20.1.1

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

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

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

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    https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-api (1.1.1)

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maven-resolver-connector-basic (1.1.1)

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maven-resolver-impl (1.1.1)

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maven-resolver-spi (1.1.1)
* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings (3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

* License: Apache-2.0

plexus-utils (3.1.0)

* License: Apache-2.0 or Apache- 1.1 or BSD or Public Domain or Indiana University Extreme! Lab Software License V1.1.1 (Apache 1.1 style)

relaxng-datatype (1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449
testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
* Project: https://maven.apache.org/wagon/
* Source: https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

* License: LicenseRef-Public-Domain

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permitted.

1.459 py3-ordered-set 4.0.2-r2

1.459.1 Available under license :

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1.460 jackson-jaxrs 2.13.2

1.460.1 Available under license:

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

## Licensing

Jackson core and extension components may be licensed under different licenses. To find the details that apply to this artifact see the accompanying LICENSE file. For more information, including possible other licensing options, contact FasterXML.com (http://fasterxml.com).

## Credits

A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

1.461 javassist 3.25.0-GA

1.461.1 Available under license:

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/ *
* Javassist, a Java-bytecode translator toolkit.
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* License.
*/
jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Javac.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Translator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AccessFlag.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/NotFindException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/InnerClassesAttribute.java
* /opt/ cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/MemberResolver.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/ProxyFactory.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ClassClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/util/proxy/RuntimeSupport.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/util/HotSwapAgent.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/compiler/Parser.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/tools/reflect/Reflection.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/tools/rmi/ObjectImporter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/convert/Transformer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/compiler/ast/Keyword.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/compiler/ast/Member.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3.jar/javassist/compiler/Compiler.java
Javassist, a Java-bytecode translator toolkit.
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Found in path(s):
1.462 ca-certificates 20220614-r0

1.462.1 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>
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 */

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# certdata.txt
#
# This file contains the object definitions for the certs and other information "built into" NSS.

# Object definitions:

# Certificates

# -- Attribute --      -- type --      -- value --
# CKA_CLASS             CK_OBJECT_CLASS  CKO_CERTIFICATE
# CKA_TOKEN             CK_BBOOL        CK_TRUE
# CKA_PRIVATE           CK_BBOOL        CK_FALSE
# CKA_MODIFIABLE        CK_BBOOL        CK_FALSE
# CKA_LABEL             UTF8            (varies)
# CKA_CERTIFICATE_TYPE  CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT           DER+base64      (varies)
# CKA_ID                byte array      (varies)
# CKA_ISSUER            DER+base64      (varies)
# CKA_SERIAL_NUMBER     DER+base64      (varies)
# CKA_VALUE             DER+base64      (varies)
# CKA_NSS_EMAIL         ASCII7          (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64      (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64      (varies)

# Trust

# -- Attribute --      -- type --      -- value --
# CKA_CLASS             CK_OBJECT_CLASS  CKO_TRUST
# CKA_TOKEN             CK_BBOOL        CK_TRUE
# CKA_PRIVATE           CK_BBOOL        CK_FALSE
# CKA_MODIFIABLE        CK_BBOOL        CK_FALSE
# CKA_LABEL             UTF8            (varies)
# CKA_ISSUER            DER+base64      (varies)
# CKA_SERIAL_NUMBER     DER+base64      (varies)
# CKA_CERT_HASH         binary+base64    (varies)
# CKA_EXPIRES           CK_DATE         (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST     (varies)
# CKA_TRUST_NON_REPUDIATION CK_TRUST     (varies)
# CKA_TRUST_KEY_ENCIPHERMENT CK_TRUST     (varies)
# CKA_TRUST_DATA_ENCIPHERMENT CK_TRUST     (varies)
# CKA_TRUST_KEY_AGREEMENT CK_TRUST       (varies)
# CKA_TRUST_KEY_CERT_SIGN   CK_TRUST   (varies)
# CKA_TRUST_CRL_SIGN       CK_TRUST   (varies)
# CKA_TRUST_SERVER_AUTH    CK_TRUST   (varies)
# CKA_TRUST_CLIENT_AUTH    CK_TRUST   (varies)
# CKA_TRUST_CODE_SIGNING   CK_TRUST   (varies)
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST   (varies)
# CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST   (varies)
# CKA_TRUST_IPSEC_TUNNEL   CK_TRUST   (varies)
# CKA_TRUST_IPSEC_USER     CK_TRUST   (varies)
# CKA_TRUST_TIME_STAMPING  CK_TRUST   (varies)
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL   (varies)
# (other trust attributes can be defined)
#

# The object to tell NSS that this is a root list and we don't have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"
#
# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_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\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\060\03
\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
\366\041\150\357\352\250\223\227\223\220\317\002\003\001\000
\001\243\060\060\016\060\003\125\035\017\001\001\377\004
\004\003\002\001\006\060\017\006\060\312\250\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\060\033\250\035\016\004\026\004
\024\214\173\251\223\220\112\205\175\004\315\064
\250\037\374\375\113\060\015\006\060\110\052\206\110\206\367\015\001
\001\005\005\000\003\020\001\000\003\266\163\347\174\117\166\132
\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\232\106\011\263\076\303\240\343\143\125\033\362
\272\357\255\207\341\101\204\234\306\057\212\046\073\357\240
\120\216\237\130\012\375\070\315\304\013\160\121\224\227\230\004
\337\303\137\224\325\025\311\024\101\234\304\013\165\144\025\015
\377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\374
\337\274\151\137\357\056\022\110\144\232\340\225\360\246\357\051\127
\001\126\025\265\014\035\245\376\151\054\151\044\170\036\263\247
\034\161\142\356\312\131\227\254\027\135\122\302\370\017\060\156
\052\204\126\260\061\225\320\147\211\205\053\371\154\246\135\106\235
\104\252\202\344\023\112\133\51\160\267\333\126\075\141\134\152\341
\114\326\366\376\075\336\101\314\007\256\143\122\277\123\123\364
\053\351\130\73\375\266\367\202\137\205\322\201\030\333\301\212\63\004
\034\305\037\244\020\157\025\040\311\336\014\210\012\035\326\146
\125\342\374\110\311\051\046\151\1340
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:01:15:4b: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):
CKA_CLASS CK_OBJECT_CLASS 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\121
Open Source Used In Crosswork Common EMS Services 4.0.0  4253

# 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

# CKA_CLASS CK_OBJECT_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

# CKA_ISSUER MULTILINE_OCTAL

# CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

# 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):

CKA_CLASS CK_OBJECT_CLASS 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\126\106\245
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\261\107\274\030\127\321\103\240\170\055\354\161\350\052\225\163
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\103\060\011\006\003\125\004\006\023\002\125\123\061\147\156\054\040\111\156\143\056\060\103\060\035\006\030\125\004\120\154\040\141\156\143\056\040\055\040\106\157\064\040\114\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\106\161\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\104\013\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\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


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

Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_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\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\143\162\151\123
\151\147\156\054\040\111\156\143\056\060\103\076\060\35\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\017\020\060\070\006\003
\125\004\013\023\061\050\143\012\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\060\004\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\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\143\162\151\123
\151\147\156\054\040\111\156\143\056\060\103\076\060\35\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\167\157\162\153\017\020\060\070\006\003
\125\004\013\023\061\050\143\012\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\060\004\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"
\`205\052\325\220\220\266\315\213\240\031\140\062\335\267\375\100\125\262
\120\034\126\250\314\215\167\115\307\040\115\247\061\166\357\150
\222\212\220\036\001\201\126\226\225\55\151\243\123\320\313\034\304
\043\075\037\231\376\114\345\026\143\216\306\010\121\366\061\366
\322\232\345\160\335\265\034\222\243\111\315\315\001\135\150\315
\251\151\272\243\335\303\015\234\244\040\246\301\124\030\321\106
\114\027\155\322\225\416\077\226\214\340\204\324\066\377\042\131
\305\371\021\140\250\013\070\044\175\362\032\366\045\102\141\017\304
\112\270\062\111\002\003\001\000\001\060\001\125\100\061\110
\206\367\015\001\000\005\000\000\003\202\001\000\000\064\046\025
\074\300\215\115\103\111\035\127\351\041\222\327\146\234\267\336
\305\270\320\334\135\137\166\042\300\046\371\204\072\072\371\214
\265\373\354\140\361\135\016\042\260\310\335\247\003\217\060\363
\230\337\244\346\244\061\133\377\323\034\013\106\334\162\040\077\256
\356\005\074\244\063\077\013\071\254\160\170\163\113\23\105\333\37
\060\302\124\260\250\073\125\241\376\026\050\315\102\275\164\156
\200\033\047\104\247\316\104\143\353\324\033\220\230\015\036\102\224
\261\100\050\404\320\164\243\002\005\042\143\143\315\203\265\373
\301\115\514\122\153\151\165\375\135\160\101\127\365\277\174\337\276
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110
\260\171\373\060\045\332\225\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\012\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\132\072\125
\311\130\020\371\252\357\132\266\317\113\113\337\052
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\060\000\070\063\061\060\060\060\060\060\060\060\0132
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
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE 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):

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH OCTAL \141\357\103\327\177\312\324\141\121\274\230\340\303\131\022\257\237\353\143\021
CKA_CERT_MD5_HASH OCTAL \370\276\304\143\042\311\250\106\164\213\035\036\112\053\366
CKA_ISSUER 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\056\013\037\060\003\125\004\12\151\123\145\162\151\147\156\040\124\162\165\163\164\040\116\145\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\162\040\120\165\042\154\151\143\040\120\162\151\155\141\162\171\145\140\135\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
CKA_SERIAL_NUMBER OCTAL \002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120\133\172
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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\015\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\030\050\143\030\105\156\164\162\165\163
\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\144\142\056\051\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\202\016\151\024\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\144\142\056\051\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\070\143\336\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\016\151\024\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\144\142\056\051\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\070\143\336\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\016\151\024\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\144\142\056\051\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
\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\367\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\140\025\215\341\354\042\067\314\232\103\013\227
\334\200\220\215\263\147\233\157\110\010\025\126\317\277\361\053
\174\136\232\160\351\131\220\305\174\203\065\021\145\121
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net
# Serial Number: 946096240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 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):

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\356\051\061\274\062\176\023\346\350\265\367\121\264\064\161\220

CKA_ISSUER 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
\135\051\061\274\062\176\023\346\350\265\367\121\264\064\161\220

END
CKA_ISSUER_MULTILINE_OCTAL
\060\201\264\061\024\060\022\006\031\125\004\012\023\013\105\156
\164\161\165\163\164\056\156\145\164\061\100\060\076\006\003\125
\004\013\024\067\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\164\056\040\040\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\066\163\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\152\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
# 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

CKA_CLASS CK_OBJECT_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"

# 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

CKA_CLASS CK_OBJECT_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"
\022\231\367\243\105\202\343\074\136\365\235\236\265\310\236\174
\056\310\244\236\161\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
\122\203\232\343\026\215\232\062\002\253\216\030\335\351\020\021
\356\176\065\253\220\257\076\060\224\172\230\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\1251
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU= CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU= CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After: Mon May 12 23:59:00 2025
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\161\165\163\164\061\042\060\040\006\003\125\004\003\023\011\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\0271
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "Entrust Root Certification Authority"

# 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):

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority"

# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (SHA-256):
\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\144\121\126\010\013\060\011\055\040\011\116\143\056\061\017\060\016\067\006\003
\125\004\103\203\060\167\167\167\056\145\156\164\162\165\163\164
\056\156\145\164\057\103\120\123\040\015\116\034\015\115\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\064\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\141\155\146\145\144\141\164\151\157\156\040\101\165\164\150
\157\162\151\156\164\171\060\036\027\015\060\060\066\061\061\062\060\067\062
\060\062\063\069\062\132\027\015\062\066\061\061\062\067\062\060
\065\063\064\062\132\026\010\061\011\006\003\125\004
\006\023\002\125\123\061\026\026\060\024\060\003\125\004\012\023\015
\105\156\164\162\165\163\164\054\040\111\156\143\056\061\116\143\056\061\071\060
\067\006\003\125\004\013\023\026\010\167\167\167\056\145\156\164\162
\165\163\164\056\156\145\164\057\103\120\123\040\015\116\034\015\115\143\015
\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\064\040\105\156\164\162
\165\163\164\054\040\111\156\143\056\061\055\060\053\006\003\125
\004\003\023\026\044\105\156\164\162\165\163\164\040\122\157\157\164
\040\101\13\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\020\201\042\060\015\050\06\11
\052\020\061\102\063\067\015\001\010\005\000\003\202\001\017\000
\060\020\001\012\002\020\001\001\000\266\225\266\013\112\372\306
\155\052\157\110\337\224\114\071\127\005\356\103\171\021\011\150
\065\035\034\137\023\020\012\172\241\070\050\374\672\020\016\146\056
\115\036\032\261\103\116\030\032\225\210\260\311\137\012\213
\063\030\033\133\313\117\036\225\210\126\031\117\012\137\206
\134\312\021\010\161\067\035\313\107\162\227\052\150\030\042\225\142
\102\533\107\331\136\032\053\077\202\113\311\255\076\336\114\333
\202\020\012\007\011\123\024\000\354\060\012\075\030\135\173\375
\052\131\132\043\122\027\054\105\236\037\156\103\171\155\014\134
\123\037\110\124\073\050\043\107\134\136\375\156\347\036\264\366\150
\105\321\062\031\133\242\212\125\261\143\051\200\036\145\161\120
\255\276\274\172\254\122\226\113\252\121\125\344\023\061\031\350
\116\115\237\033\254\263\152\235\274\071\124\161\132\172\12\172\177
\202\035\175\035\200\331\201\273\131\046\302\021\376\346\223\342
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026
# Fingerprint (SHA-256):
# 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

CKA_CLASS CK_OBJECT_CLASS 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\001\11\006\000\3125\004\006\023\002\125\123
\061\026\060\024\006\000\3125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\071\060\067\006\000\3125\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\003\056\003\125\004\013\023\026\050\143
\051\040\062\060\060\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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_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
06007606101306001110060031125004006023002120114061
03306003106000311250040120230221251561151172145164
1570401231600560401720401570561157056061022060020
00600311250040030230111031451621641651550400103101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
06007606101306001110060031125004006023002120114061
03306003106000311250040120230221251561151172145164
1570401231600560401720401570561157056061022060020
00600311250040030230111031451621641651550400103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020003001000040
END
CKA_VALUE MULTILINE_OCTAL
0602020003011406002020011364240003012001002002002003001
000004006001150060111052020611102063670115001001005005
000004006007606101306001110060031125004006023002120114
061033060003100600311250040120230221251561151172145164
15707010401231600560401720401570561157056061022060020
006000311250040030230111031451621641651550400103101
101060036020710560660660661061061060640660663
0711320271056206706066061061060640660663071
13206007606101306001110060031125004006023002120114
061033060003100600311250040120230221251561151172145164
15707010401231600560401720401570561157056061022060020
020000600311250040030230111031451621641651550400103101
101060036020710560660660661061061060640660663
0711320271056206706066061061060640660663071
13206007606101306001110060031125004006023002120114
061033060003100600311250040120230221251561151172145164
15707010401231600560401720401570561157056061022060020
020000600311250040030230111031451621641651550400103101
101060036020710560660660661061061060640660663
0711320271056206706066061061060640660663071
13206007606101306001110060031125004006023002120114
061033060003100600311250040120230221251561151172145164
15707010401231600560401720401570561157056061022060020
020000600311250040030230111031451621641651550400103101
101060036020710560660660661061061060640660663
0711320271056206706066061061060640660663071
13206007606101306001110060031125004006023002120114
061033060003100600311250040120230221251561151172145164
15707010401231600560401720401570561157056061022060020
020000600311250040030230111031451621641651550400103101
101060036020710560660660661061061060640660663
0711320271056206706066061061060640660663071
13206007606101306001110060031125004006023002120114
061033060003100600311250040120230221251561151172145164
15707010401231600560401720401570561157056061022060020
020000600311250040030230111031451621641651550400103101
101060036020710560660660661061061060640660663
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# 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

CKA_CLASS CK_OBJECT_CLASS 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_ISSUE MULTILINE_OCTAL
# 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):

# Fingerprint (SHA1):

# Certificate TYPE SHA_256

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_1

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_256

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_1

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_256

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_1

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_256

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_1

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_256

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_1

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_256

# Subject MULTILINE_OCTAL

# Issuer MULTILINE_OCTAL

# Private MULTILINE_OCTAL

# Modifiable MULTILINE_OCTAL

# Certificate TYPE SHA_1
# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
The document contains a detailed description of a certificate from QuoVadis Root CA 2, including itsIssuer, Serial Number, Validity Dates, and Fingerprint. It also includes attributes such as CKA_CLASS, CKA_TOKEN, CKA_PRIVATE, CKA_MODIFIABLE, and CKA_ID.

Here is an extract of the certificate description:

```
# Certificate "QuoVadis Root CA 2"
#
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After: Mon Nov 24 18:23:33 2031
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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"
```

The document also references a certificate with the CKA_ID UTF8 value "0".
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\014\262\026\040\210\020\001\110\071
\031\223\174\367
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\353\370\272\354\202\351\254\142\272\014\124\000\053
END
CKA_ISSUER MULTILINE_OCTAL
\060\015\006\011\100\060\003\125\004\012\23\020\121\165\157\126\141\144
\151\163\040\114\151\151\151\151\164\145\144\061\033\060\033\060\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 After : Mon Nov 24 19:06:44 2031
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_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

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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\003

CKA_VALUE MULTILINE_OCTAL
\060\020\006\235\060\020\004\205\240\003\002\001\002\002\002\005
\306\060\015\006\011\052\206\110\206\036\015\001\001\005\005\000
\060\015\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

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CKA_NSS_MOZILLA_CA_POLICY  CK_BBOOL  CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER  CK_BBOOL  CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER  CK_BBOOL  CK_FALSE

# Trust for "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
# Fingerprint (SHA-256):
CKA_CLASS  CK_OBJECT_CLASS  CKO_NSS_TRUST
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8 "QuoVadis Root CA 3"


# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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\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\033\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\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\033\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\020\02\12\240\003\002\001\002\002\001\000
\060\015\000\006\011\052\206\110\206\367\015\001\001\005\005\000\060
\120\061\101\030\060\011\006\003\125\004\006\023\002\112\120\061\030
\060\026\006\003\125\004\012\023\017\123\105\033\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\101\056\026\036\060\071\063\060\060\064\062\060\064\071
\132\060\120\060\011\030\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\012\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\060\160\020\00\104\060\015\060\011\052\206\110\206\367
\015\001\001\001\005\000\003\02\00\101\07\00\060\020\00\101\02\00
\20\02\00\100\000\263\263\376\177\323\155\261\357\026\174\127\245
\014\155\166\120\057\113\277\144\373\114\356\122\360\363\051\174
\365\377\356\052\340\351\353\151\272\133\144\042\232\232\157\054\072
\046\151\211\005\023\104\063\343\325\034\152\161\030\062\232\175\036\235
\335\174\153\036\141\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\125\227\222\215\263\211\176\352\041\150\006\230\024
\226\027\322\141\066\274\155\047\126\236\127\356\300\301\126\375
\062\317\244\331\121\032\024\327\215\250\363\330\045\254\227\344
\160\070\364\266\072\264\235\073\227\046\106\133\241\247\111\111\131
\162\214\043\060\060\207\000\113\306\161\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\104\226\144\235\334\042\367\144
\213\33\141\336\025\224\122\025\240\175\122\311\111\132\50\041\111
\130\262\135\330\333\023\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\323\132
\166\044\050\016\030\020\003\000\001\243\077\060\075\060\035\006
\003\125\035\016\004\026\060\004\024\240\163\111\123\115\033\40\205\133
\145\343\233\050\057\127\237\275\063\274\007\110\060\013\006\003
\125\035\170\004\004\003\002\001\000\060\060\017\006\003\125\035\023
\100\010\137\70\004\005\060\003\001\010\137\060\015\052\206
\110\206\367\015\000\100\005\050\000\003\202\001\000\001\000\000
\251\125\273\344\117\135\171\263\005\265\027\263\140\002\23\353\306
\222\135\340\321\323\152\237\63\373\276\233\155\277\307\005\155\131
\040\030\043\360\267\332\204\130\062\143\372\110\026\357\117\245
\013\367\112\230\362\077\226\033\325\107\153\143\316\101\070\353
\122\077\170\234\257\115\265\370\325\117\317\232\230\052\010\01
\071\122\303\043\353\331\123\006\165\372\233\012\256\262\056\312\150\102
\044\102\154\260\263\072\076\315\353\332\211\030\042\253\135\1371
\007\017\222\120\111\123\335\061\122\7\373\111\351\067\252\073\113
\145\227\224\062\321\116\237\237\076\072\142\130\305\111\255\142\016
\161\125\062\252\057\306\211\166\61\103\100\023\023\147\075\242\124
\045\020\313\61\072\362\333\137\233\111\126\273\246\376\247\101
\065\303\340\210\141\131\121\307\373\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\311\136\362\323\022\333\130\045\102\121\225\107\003
\214\154\041\134\164\102\355\123\377\063\321\217\017\127\001\026
\057\317\124\63\306\311\160\042\202\247\357\276\154\013\003
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\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\000\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\143\143\165\162\151\164\171\040\103\157\155
\155\156\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

"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):

CKA_CLASS CK_OBJECT_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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
06206106006306006106006006006006006132
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):
CKA_CLASS CK_OBJECT_CLASS 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
\106\014\136\026
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\156\072\125\244\031\014\031\134\223\204\074\300\333\162\056\061
\106\014\136\026
END

CKA_ISSUER MULTILINE_OCTAL
\106\017\77\06\101\03\060\011\006\003\132\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
\101\130\023\032\150\164\164\160\072\057\057\167\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\042\060
\040\060\003\125\004\003\023\031\010\101\010\101\046
END
Open Source Used In Crosswork Common EMS Services 4.0.0 4290

# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"

CKA_SUBJECT MULTILINE_OCTAL
\060\175\157\164\040\103\157\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
"150164\164160072057057\143\162\154056\143\150141\155142
\145162\163151147\1560561571621470573143150141\155142
\145162\163151147\156162157157164056143162154060035
\0060603\125035016004026006024103240662372620236060
\115306316131725502025533450032453722510240600016006
\0031250350170010013377004040030020010060600210060
\01114002061100012063701020010011004004000302000007
\06005200600312503502100403406004120103713413150141
\155142145162163151147156162157157164100143150141
\155142145162163151147156056157162147060052006003
\125035022004043060041201037134150141155142145162
\163131147156162157157164100143150141155142145162
\163131147156056157162147060133006003125035040004
\1240601220601200601130530600110040012010207056012
\001100106010106060770060101053006011105005007002001
\026063150164164160072057057143160163056143150141
\1551421451621631511471560561571621470573143160163
\05731501431143150141155142145162163151147156162157157164
\056150164155154060015060611052206110206367015001
\001100050050000032022001001100740731602221371004124
\04722213413553553761501577141135345101145177062361
\03000522415203433600371603330076173062000206426504
\1154241212174249364217377324303255027325055004321
\0771300203422011132102763003431062230443376220275
\0462420600553502270461127065211164226030366025342
\25704400311260002002262272017024352306212146301206
\1051252317270222270223444004307111170742363500511172
\21123713272573377150365245027220275254231314245206
\12701111471063333260263021063611344251120365217321
\2220253231370763060001110725156130262321321047015
\045310062370040021315175062063110224214114335334
\1713040060237353216270125265327210334305152044075
\2622300500312130600073573140242162164075156162316
\0300502141122401673450110531051041075254267147117
\00112120051322232762413013773703470161472441071111
\166135165220032365046217360
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Disttrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062061060630606106006606006006006006006132
END

# Trust for "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
# 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):

CKA_CLASS CK_OBJECT_CLASS 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_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
# 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):
# Trust for "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc,OU=www.xrampsecurity.com,C=US
# 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
\x041\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\152\200\017\041\274\351\173\332\246\267\100\364\262\213\251\261\134\365\250\050\243\341\074\263\360\262\021\234\317\174\100\363\346\357\103\175\242\233\072\265\251\126\206\042\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_SERIAL_NUMBER MULTILINE_OCTAL
\x041\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\152\200\017\041\274\351\173\332\246\267\100\364\262\213\251\261\134\365\250\050\243\341\074\263\360\262\021\234\317\174\100\363\346\357\103\175\242\233\072\265\251\126\206\042\231\304\324\020\341\006\375\011\204\020\073\356\304\114\364\354\047\174\102\302\164\174\202\212\011\311\264\003\045\274
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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):
cka_CLASS CK_OBJECT_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
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255

cka_ID UTF8 "0"
cka_ISSUER MULTILINE_OCTAL
\002\020\120\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255

cka_SERIAL_NUMBER MULTILINE_OCTAL
\002

cka_VALUE MULTILINE_OCTAL
\002\001\000

cka_SERIAL_NUMBER MULTILINE_OCTAL
\002

cka_VALUE MULTILINE_OCTAL
\002\001\000
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\202\001\000\000\000\002\076\221\374\042\202\306\241\007
\214\216\167\240\063\006\024\134\220\036\030\036\010\246\075\012
\031\371\120\021\156\151\134\226\027\060\377\064\221\143\162
\070\356\134\034\001\124\035\224\050\244\061\366\172\304\124\127
\366\345\066\111\130\003\242\134\161\142\133\324\105\163\265\277\105
\311\144\265\235\202\002\255\043\171\151\215\270\266\115\316\137
\114\312\063\043\350\034\210\252\235\213\101\156\026\311\040\345
\211\126\315\073\332\160\367\176\231\046\040\024\124\045\253\156
\163\205\346\233\041\235\012\154\202\162\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\173\354\030\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\235\323\211\100\262\020\114\356\304\254\020\103\246\245
\236\012\325\225\142\232\015\317\210\203\305\062\014\344\053\237
\105\346\015\237\050\234\261\271\052\132\127\255\067\017\257\035
\177\333\275\237
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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\000\134\217\167\046\033\240\327\167\160\002
\217\040\356\044
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\221\336\060\045\253\332\375\062\027\014\273\045\027\052\204\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\143\036\101\036\060\11\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\014\141\144\144\171\104\010\171\162\157\157\165\160\054\040\111\156
\143\056\061\061\060\057\006\003\125\004\013\023\050\107\157\040

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# 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):

cka_class ck_object_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

cka_id utf8 "0"
ckaIssuer multiline_octal

\040\141\144\144\171\140\103\115\154\116\133\104\116\142\002\000\103\145
\162\144\151\146\151\143\141\164\151\157\156\104\101\165\164\150
\157\162\151\164\171
END
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\062\112\113\273\310\143\151\233\276\164\232\306\335\035\106\044
END
# 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

END
Open Source Used In Crosswork Common EMS Services 4.0.0  4305

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root CA"
# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number: 0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS 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\014\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\040\023\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
# 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):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\014\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\040\023\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END

# Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\014\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\040\023\006\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END

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

Open Source Used In Crosswork Common EMS Services 4.0.0 4306
# Trust for "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):

\END

# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In Crosswork Common EMS Services 4.0.0
\4308
# Certificate "DigiCert High Assurance EV Root CA"

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

CKA_CLASS CK_OBJECT_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\101\307\111\156\143\061\025\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\103\106\027\006\003\125\004\013\023
\020\167\167\167\167\156\143\141\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 Authority
# Certificate "DigiCert High Assurance EV Root CA"

# 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):

CKA_CLASS CK_OBJECT_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\101\307\111\156\143\061\025\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\103\106\027\006\003\125\004\013\023
\020\167\167\167\167\156\143\141\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
# 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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
# 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

# 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
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\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\011\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 After : Sat Oct 25 08:30:35 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_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\000\003\125\004\012\023\014\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\000\003\125\004\012\023\014\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\020\110\000\273\100\003\41\013\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\003\41\013\365\136\117\260
END

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\364\273\315\136\005\173\112\173\117\237\165\146\257\074\350\126\176\374  
\162\170\070\003\333\150\142\033\002\173\130\350\114\135\143\136  
\121\123\307\120\066\115\344\112\176\030\057\151\113\266\075\144  
\201\053\344\203\024\346\042\207\216\175\340\356\002\231\141\270  
\036\364\270\053\210\022\202\262\204\302\061\123\070\226\061\124\267  
\073\123\077\030\144\223\216\133\151\222\235\035\305\012\273\070\0000  
\343\354\027\251\120\073\343\030\74\001\203\237\062\107\272\122\042  
\064\035\062\172\011\126\247\174\045\066\251\075\113\333\330\002\006  
\157\012\273\022\031\10\207\113\047\021\371\036\057\307\223\077\236  
\333\137\046\153\122\331\056\121\361\024\306\104\215\025\251\267  
\277\275\336\246\032\356\256\055\373\11\067\027\376\273\354\257  
\030\365\052\121\360\071\120\227\225\154\156\033\303\053\304\164  
\140\011\045\260\012\047\337\337\136\322\071\317\105\175\102\113  
\337\263\054\036\305\036\135\312\125\072\240\234\151\232\217\332  
\357\262\260\074\237\207\154\022\053\145\160\025\122\061\103\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\03\126\65\112\023\152\107\317\056\013\126  
\225\124\313\316\232\333\152\264\246\262\333\10\10\020\064\017\167  
\367\171\242\011\201\54\013\070\316\327\165\012\205\222\302\337\053  
\060\042\110\320\032\5\01\070\045\135\244\345\135\135\237\062\224\165  
\320\015\375\060\227\103\127\220\253\012\307\026\163\140\112\151  
\055\336\245\170\327\006\333\152\236\113\076\167\072\040\032\042  
\001\013\20\027\150\236\143\140\153\065\151\013\155\272\241\075\300  
\223\340\177\043\263\125\255\162\045\116\106\371\022\263\357\260  
\144\331\001\123\365\151\322\240\152\230\016\317\330\140\362\057\111  
\270\344\102\341\070\065\206\363\431\015\156\17\367\011\126\350\272  
\243\276\043\257\256\375\157\003\340\002\073\060\166\372\033\155  
\101\137\001\126\351\270\311\146\364\333\046\363\072\244\164\362  
\110\044\133\111\260\320\127\301\132\70\172\341\122\731  
END  
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE  
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE  
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE  

# Trust for "SwissSign Gold CA - G2"  
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH  
# Serial Number:00:bb:40:1c:f5:5e:4f:b0  
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH  
# Not Valid After : Sat Oct 25 08:30:35 2036  
# Fingerprint (SHA-256):  
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST  
CKA_TOKEN CK_BBOOL CK_TRUE  
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "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\022\132\073\372\210\055\032\377\037\063\223
END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\013\060\011\006\003\125\004\006\023\002\103\110\061
\237\032\047\141
\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 After: Sat Oct 25 08:32:46 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_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\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
# 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 After: Sat Oct 25 08:32:46 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK TRUST CKT_NSS_TRUSTED DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "SecureTrust CA"

# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:77: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):

CKA_CLASS CK_OBJECT_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\100\106\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\100\106\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\035\047\030\131\131\320
END

CKA_VALUE MULTILINE_OCTAL
\060\020\012\360\216\134\010\026\245\255\102\177\360\035\047\030\131\131\320
\136\216\134\010\026\245\255\102\177\360\035\047\030\131\131\320
\015\006\011\100\052\206\11\102\060\367\015\001\001\005\005\000\060\110
\061\100\060\011\100\060\033\125\004\006\023\002\125\123\123\061\104\006
\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\100\060\036\027\015\060\060\061\061
\060\067\061\071\063\061\061\070\132\027\015\062\071\061\062\063
# 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:0: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):

CKA_CLASS CK_OBJECT_CLASS 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\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\030\023\016\123\145\143\165\162\145\124\162\165\163\164\040\103\101

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\306\014\360\216\134\010\026\245\255\102\177\360\353\047\030

CKA_ISSUER MULTILINE_OCTAL
\060\10\06\10\013\06\00\11\10\06\00\03\12\05\00\4\00\06\00\02\23\00\2\12\05\123\061\04\06\00\03\12\05\00\4\01\02\23\02\7\12\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\030\023\016\123\145\143\165\162\145\124\162\165\163\164\040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\02\00\14\360\216\134\010\026\245\255\102\177\360\353\047\030

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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"
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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\001\100\060\003\125\004\006\023\002\125\123\061
\040\060\036\000\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\154\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

# Certicate "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:ce5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
Open Source Used In Crosswork Common EMS Services 4.0.0  4330
# 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

CKA_CLASS CK_OBJECT_CLASS 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\132\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\131\161\065\200\165
END

CKA_ISSUER MULTILINE_OCTAL
\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\135\031
\354\056\060\116\224\065\264\044\037\113\170\151\133\326\62\002\070
\314\225\122\233\360\160\045\131\234\040\147\304\356\371\123\127
\141\364\222\166\175\077\204\215\125\267\350\345\254\325\361\365
\031\126\246\323\373\220\034\257\223\355\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\010\061\036\307\170\276\130\141\070\254\073\342\001
\145
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\145\340\013\002\356\076\065\002\106
\345\013\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 "Network Solutions Certificate Authority"
#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# 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

CKA_CLASS CK_OBJECT_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\100\003\125\004\123\023\125\123\061
\041\060\037\006\003\125\004\120\023\030\116\145\164\167\157\162
\13\040\123\157\154\165\164\151\157\156\163\160\114\105\114\1056
\103\056\061\060\060\056\003\125\004\123\023\047\116\145\164
\16\157\156\152\153\040\123\157\154\165\164\151\157\156\163\040\103
\14\156\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\16\151\164\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\100\003\125\004\123\023\023\125\123\061
\041\060\037\006\003\125\004\120\023\030\116\145\164\167\157\162
\13\040\123\157\154\165\164\151\157\156\163\160\114\105\114\1056
\103\056\061\060\060\056\006\003\125\004\123\023\047\116\145\164
\16\157\156\152\153\040\123\157\154\165\164\151\157\156\163\040\103
\14\156\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\16\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
# Trust for "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\324\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\315\035\131\261\055\226\115\016\021\056
END
CKA_ISSUER MULTILINE_OCTAL
\060\142\060\101\03\060\001\100\060\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

# Certificate "COMODO ECC Certification Authority"

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

CKA_CLASS CK_OBJECT_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

END

# Certificate "COMODO ECC Certification Authority"

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

CKA_CLASS CK_OBJECT_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

END
# Trust for “COMODO ECC Certification Authority”

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

CKA_CLASS CK_OBJECT_CLASS 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
\267\170\012\162\267\210\337\377\265\106\024\011\012\372\240\346
\175\010\306\032\020\277\050\030\251\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\016\107\263\143\175\023\233\116\267\157
\030\067\200\123\376\335\040\340\065\232\066\321\307\001\271\346
\334\335\363\377\035\054\072\026\127\331\222\071\326

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "OISTE WISeKey Global Root GA CA"

# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c) 2005,O=WISeKey,C=CH
# 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):

```
```
# Fingerprint (SHA1):

```
```

CKA_CLASS CK_OBJECT_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\021\212\061\013\060\001\11\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\104\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\105\060\046\006\003\125\004\003\023\037\117\111 \\
\123\124\105\040\127\111\123\145\131\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\021\212\061\013\060\001\11\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\104\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\105\060\046\006\003\125\004\003\023\037\117\111 \\
\123\124\105\040\127\111\123\145\131\145\171\040\107\154\157\142 \\
\141\154\040\122\157\157\164\040\107\101\040\103\101 
```

END
Open Source Used In Crosswork Common EMS Services 4.0.0  4339
# 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
# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS 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"
CKACERT_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\132\323\146\143\124\025\162\033\041\222\223
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\020\060\016\060\003\125\004\012\023\007\127\111\11\123\145\113
\145\171\106\133\060\03\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
\160\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\060\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\11\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):
CKA_CLASS CK_OBJECT_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\020\020\060\016\060\003\125\004\012\023\007\127\111\11\123\145\113
\145\171\106\133\060\03\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
\160\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\060\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\11\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\020\020\060\016\060\003\125\004\012\023\007\127\111\11\123\145\113
\145\171\106\133\060\03\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
\160\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\050\060\046\060\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\11\123\145\113\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
# 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):
CKA_CLASS CKOBJECT_CLASS 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\053\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\046\101\013\060\001\110\006\000\03\125\004\006\023\002\106\122\061
\022\060\020\000\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
# Certificate "ePKI Root Certification Authority"

# Issuer: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Serial Number: 15:cb:65:47:5c:af:89:7e:00:5e:e4:06:2d: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

# Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Serial Number: 15:cb:65:47:5c:af:89:7e:00:5e:e4:06:2d: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
Open Source Used In Crosswork Common EMS Services 4.0.0
# Trust for "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd." C=TW
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\113\060\011\006\003\125\004\006\023\002\124\127\061 \043\060\041\006\003\125\004\012\014\032\103\150\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\000\312\25\004\13\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

# 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
\134\035\217\137\231\130\04\26\1255\333\210\00\41\35\2200\10\20\200
\363\060\243\103\346\220\20\20\25\61\25\05\01\11\35\13\32\27\25\10\20
\07\01\16\376\217\11\14\13\23\106\35\21\1365\26\00\10\16\4\03\32
\210\063\26\174\32\176\16\33\24\12\10\01\16\57\124\10\45
\10\00\50\35\21\07\13\16\05\05\06\07\12\35\24\12\13\56\26\34\05
\04\62\02\02\03\34\23\14\55\22\01\12\04\30\01\136\37\13\37\00\20
\34\23\20\27\17\13\37\33\6\06\70\00\00\00\03\13\30\03\43\32\23
\16\30\76\06\20\27\23\04\13\11\12\05\1\23\37\26\25\03\26\11\70\02
\00\30\10\01\00\00\01\24\10\20\06\00\00\01\17\00\00\03\12\50\35\02\30\01
\00\11\37\00\04\05\06\00\03\01\00\13\77\06\00\16\00\06\03\12\50\35\01\17
\00\10\01\37\70\00\04\00\03\00\02\00\13\06\06\00\35\06\00\03\12\50\35\01\16
\00\40\26\04\04\02\34\01\14\23\33\33\33\34\51\11\26\36\11\174\20\06\32\02
\10\22\07\01\13\32\01\53\24\33\1\16\06\00\01\11\05\2\20\6\11\02
\67\01\50\01\00\01\05\00\05\00\00\03\20\00\01\10\00\00\07\32\20\34\11
\05\60\06\37\43\16\53\34\61\17\14\52\10\36\14\16\2\14\31\11\05\43\27
\06\21\16\36\33\35\03\1\17\10\7\25\16\07\31\33\22\30\17\12\01\11\04
\02\31\53\02\40\06\16\2\35\01\11\23\24\12\14\34\10\02\40\11\34\07\03
\06\21\16\04\74\11\15\60\17\23\11\33\24\36\03\32\23\20\61\44\12
\12\71\14\16\12\03\25\12\37\21\04\22\01\24\23\33\30\04\22
\11\60\26\12\51\60\24\10\60\17\15\53\15\04\10\37\31\17\05\05\27\40\31
\34\32\10\06\13\07\13\03\22\01\11\31\10\22\27\26\14\63\07\14\03\04\13
\31\14\27\21\16\26\21\65\37\50\03\22\01\11\33\13\15\17\62\22\13\15\13
\06\11\10\32\26\10\07\27\20\26\22\75\02\61\17\37\12\53\44\27\62\10
\04\53\35\14\40\04\03\04\26\06\01\07\00\04\66\26\40\03\22\20\27\52\20
\16\41\16\12\02\11\15\52\74\02\43\01\17\20\62\25\36\12\25\07\63\07\20
\01\13\14\24\31\10\32\13\03\33\14\44\34\72\22\26\31\72\51\16\2\03\16
\12\33\71\10\02\40\07\40\23\25\17\62\22\33\17\12\12\23\37\21\16\03\02
\22\11\06\13\17\31\14\71\13\35\12\26\07\10\13\17\26\33\16\11\61\20
\02\51\47\33\16\66\02\14\20\40\27\61\12\51\15\22\51\03\00\07\11\15
\36\63\35\26\01\12\11\16\11\10\04\12\41\03\13\17\10\2\03
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number:20:06:05:16:70:02
# Subject: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After : Fri Jul 04 17:20:04 2031
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE 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

# CKA_LABEL UTF8 "certSIGN ROOT CA"
\040\010\171\157\154\014\005\010\014\164\114\115\016\130\227\163
\303\255\164\166\033\241\156\171\060\202\001\042\060\015\016\060\11
\052\206\110\202\063\67\015\001\010\013\050\000\033\232\020\017\000
\060\02\000\010\202\02\000\010\000\030\044\136\163\126\113\135
\054\303\244\164\343\332\227\220\156\322\060\105\036\074\356\147\331
\144\340\342\12\17\33\12\060\31\233\343\334\040\30\13\343\364\072\332
\22\14\137\302\17\133\155\277\060\117\204\047\366\237\037\111\127
\306\23\102\22\062\017\365\177\103\204\067\143\121\121\13\125
\160\37\17\130\135\121\233\335\301\106\154\204\160\135\323\363
\001\12\20\043\374\116\060\25\1\176\34\104\71\143\347\355\144\074\240
\270\31\106\31\34\376\02\22\060\27\07\357\327\25\300\300\224
\103\01\13\26\03\25\13\13\12\36\12\32\04\40\37\160\171\125\7\330\071
\124\015\145\165\331\02\10\12\22\001\12\5\136\35\4\36\025\13\361\377
\255\144\376\04\023\32\37\13\43\35\36\24\06\37\01\014\42\23\13\166
\125\255\03\06\73\05\140\056\207\045\35\02\25\25\07\37\30\6\144\06
\040\267\160\177\074\336\110\33\326\21\236\26\07\11\167\344\032\342
\307\02\26\04\166\22\13\30\57\27\30\12\25\20\5\37\151\205\365\231
\124\75\21\36\02\64\24\25\12\26\06\03\174\5\20\60\07\51\24\174\166
\004\233\153\371\100\135\000\064\307\56\23\165\235\345\210003
\252\115\37\000\332\102\16\30\030\330\200\200\250\201\23\43\105
\060\01\03\06\22\006\03\12\5\35\02\23\001\01\37\7\004\010\060\006
\001\001\37\7\002\20\001\004\060\016\060\030\12\5\35\017\000\01\01377
\004\004\040\03\000\200\01\060\060\035\060\031\25\35\016\000\04\260\004
\024\314\372\147\223\36\026\260\27\03\20\45\30\036\363\123\375\214
\123\33\20\3\32\27\22\06\01\15\060\11\05\2\20\6\11\02\06\367\015\000
\001\01\03\00\05\000\003\20\20\001\01\000\253\171\35\06\034\02\25\1234
\074\12\10002\24\30\002\10\10\052\24\23\13\46\157\001\21\10\124\14
\156\35\27\10\30\255\11\2\25\37\6\201\100\043\22\4\057\373\165\174
\057\050\113\142\044\201\20\20\13\36\5\141\13\13\6\134\156\270\141\070
\353\21\372\142\24\107\31\23\142\323\224\145\30\43\041\066\365\232
\370\05\04\51\60\26\20\04\060\30\162\12\03\7\140\54\30\03\20\422
\303\13\21\7\27\13\7\36\4\2\145\245\53\1\2\13\33\055\262\106
\165\02\04\32\15\157\20\05\14\03\060\20\30\32\23\037\010\34\302
\154\02\10\13\13\5\22\3\13\073\25\001\15\060\31\27\177\175\177\136
\136\12\35\02\7\25\31\11\061\160\040\24\63\11\001\11\21\27\04\10\571\173
\276\24\25\05\13\4\24\13\24\22\20\27\31\36\26\27\11\01\363\075\205
\270\20\33\332\27\6\25\21\051\371\333\26\07\05\000\011\11\2\24\03\204
\104\34\7\27\103\061\31\17\16\23\045\32\01\36\4\144\365\22\366
\253\005\353\5\051\245\01\366\14\232\23\040\961\37\066\21\123\666
\136\061\27\00\52\373\163\366\161\31\370\104\046\23\60\340\346\015\221
\264\05\165\22\5\20\00\12\15\21\13\060\24\260\14\24\21\223\361\233
\330\31\30\413\165\077\131\107261
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "NetLock Arany (Class Gold) Ftanúsítvány"
# 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_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\101\13\060\011\100\06\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\040\122\157\157\164\040\03\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\101\13\060\011\100\06\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\040\122\157\157\164\040\03\101\040\061
\065\061\065\065\061\010\063\061\064\132\027\015\156\062\063\060\065\061\016\060\064\065\062\062\071\132\060\010\113\060\036\027\015\156\060\063\060\065\061\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\040\122\157\157\164\040\03\101\040\061
\065\061\065\065\061\010\063\061\064\132\027\015\156\062\063\060\065\061\016\060\064\065\062\062\071\132\060\010\113\060\036\027\015\156\060\063\060\065\061\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\040\122\157\157\164\040\03\101\040\061
\065\061\065\065\061\010\063\061\064\132\027\015\156\062\063\060\065\061\016\060\064\065\062\062\071\132\060\010\113\060\036\027\015\156\060\063\060\065\061\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\040\03\101\040\061
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “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):
CKA_CLASS CK_OBJECT_CLASS 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\106\004\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\013\060\011\006\003\125\004\060\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\104\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):
CKA_CLASS CK_OBJECT_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\006\011\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

Open Source Used In Crosswork Common EMS Services 4.0.0 4356
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After: Sun Apr 08 04:56:47 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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
0733040237110337036316312402340362753701331261303145
307330021263
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

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\131\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

CKA_CLASS CK_OBJECT_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 MULTI LINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\110\125
\061\121\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\115\143\162\157\163\145\143\040\145
\105\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\010\100\010\26\020\151\156\146\157\100\145\055\163\172\151\147
\156\157\056\150\165
END
END

# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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\201\202\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\145\015\115\151
\143\162\157\163\145\143\040\114\164\144\140\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\100\012\060\202\015\115\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 Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_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
# 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):
CKA_CLASS CK_OBJECT_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\069\063\064\060\066\070\END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\001\100\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

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Open Source Used In Crosswork Common EMS Services 4.0.0 4366

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0002010123\354073\35633732621101137

END

CKA_VALUE MULTILINE_OCTAL
060202006024060202003\374240003002001002002010123
1354073\3563373262110113706011500601110522061110206367
015001001005000000060121061013060111006003125004
006023002010512306110206010000600312500403014071
1011165164157162151114114404014411450401031145162
16411511461151143114311511571156040106115116211551141
160116211571461451631151157115611411540401031111106040
10110660620606306406060607060606036027015606071060
06506206060607060630706061065132027015606060601062
06306106060706037060616051320601120610136061110006
0031125004006023002105123061102060100006003125004
0030140711011165164157162151114114411440401441154040
1031146116211641151146111431143115115711560401061151
16211551141160162115711461156115611561141154040103
11111060401101666206063064606660670606020002042
006001500601110522061102063670150011001000500000003
0200200170000602020020120022020020010003113226153
12163523207033736124206513401771143323403031122327175
266020310002126326310352304117152262312034135050
123217021203215111311272572650401023442130173346337
13324600332205736502113441423270621611703311004014
16112530751211760170070337143005134351127224157301
1502030232643321212603011074273255067112134132361
111306601604425327730320411673752501203346216347306
05732205513112151720121162261151122002252066230354
3743472242030114067037311222067177327201105353450304
1271340076064376114736407611463213233641003117361142
0640171660060760400303132316367162033045154223164
02422302431632610162522070200431311137040005031107
35515020162220223121135374132605352622220704040317341
137257304027024016611771663453540320611401630766347
1372640772401017216242271115215727121070461571011154
121024612037515211430113652232063030312127263355233
2333112203650010143370311075101706070043111057217
014321002376033112532611632021507425711172443633376
12570523320052351711011024113111270612642343110220626
1473640300262232072374107330321117022660130722053
01411371352312551432111132044040166330337375253116
2460422522351363460047212175150051243347121270332
02112730270552312350230441066373053423302372161177
Open Source Used In Crosswork Common EMS Services 4.0.0  

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Autoridad de Certificacion FirmaProfesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion FirmaProfesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "Izenpe.com"

# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"

END
\060\040\126\151\164\157\162\151\141\055\107\141\163\164\145\151
\172\060\017\006\003\125\035\023\001\010\137\070\004\056\060\003\001
\001\177\060\160\060\003\125\035\017\001\100\137\070\004\056\003\002
\001\100\060\050\135\060\003\125\035\016\004\026\060\004\024\035\034\014
\106\250\165\045\173\264\222\131\134\426\126\134\275\125\164\154
\005\060\015\006\011\052\206\110\206\367\015\001\013\005\000
\003\202\002\001\000\170\246\014\026\112\237\114\210\072\303\013
\106\245\026\175\237\271\111\013\030\217\015\142\066\366\315\031
\153\254\253\325\366\221\117\256\161\163\360\077\263\016\205\233
\225\244\047\041\107\102\112\174\110\072\365\105\174\263\014\216
\121\170\254\225\023\336\060\375\175\270\032\220\114\253\222\003
\307\355\102\001\131\160\173\330\261\132\242\222\341\140\155\256\172
\153\011\252\230\065\015\365\150\111\147\060\200\044\172\061\102\060\71
\133\176\361\034\056\335\154\011\255\360\061\301\202\116\271\273
\371\276\277\052\205\077\300\100\243\072\131\374\131\111\130\040\050
\044\333\264\025\165\256\015\210\272\056\163\300\275\130\207\345
\102\262\353\136\356\036\060\042\223\131\306\73\321\304\041\154\201
\354\276\150\045\346\043\434\102\040\236\107\260\254\203\111\160
\054\065\326\257\060\064\264\315\073\370\062\250\357\343\170\211
\373\215\105\054\332\234\270\176\100\003\41\134\470\062\242\222\054
\113\362\131\372\230\260\051\377\363\262\173\251\037\056\240\223
\127\053\336\205\003\371\151\067\313\267\160\152\005\264\305\061
\170\211\354\172\247\205\341\271\173\170\343\336\276\061\171\204\316
\237\160\016\131\302\056\506\220\052\061\133\344\105\172\101\214
\056\023\233\064\016\146\173\111\253\144\227\320\106\303\017\1235
\162\120\143\236\246\030\133\006\275\110\155\300\071\203\160\350\065
\360\005\321\252\272\343\333\310\002\352\174\375\202\332\320\133
\122\065\256\230\072\252\527\065\223\043\247\037\110\335\065\106
\120\302\020\150\344\246\050\013\020\121\305\063\012\012\203\111\120
\165\374\352\132\026\361\021\327\356\357\120\210\055\141\137\077
\102\163\052\224\103\325\216\074\116\001\072\031\245\037\106\116
\167\320\135\345\201\042\041\207\376\224\175\204\330\223\255\326
\150\103\110\102\262\333\335\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
\136\242\110\331\135\132\371\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\000\105\143\140\125\211\003\079\215\330\272\112\331\124
\377\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154
\333\374\046\210\307
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# 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):
CKA_CLASS  CK_OBJECT_CLASS  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\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\351\031
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\140\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 After: Sat Jul 31 12:29:50 2038
Fingerprint (SHA-256):
CKA_CLASS  CK_OBJECT_CLASS  CKO_CERTIFICATE
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  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):

CKA_CLASS CK_OBJECT_CLASS 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\020\125\066\013\060\011\006\003\125\004\006\023\002\105\125
\061\013\060\10\100\000\03\125\004\006\023\002\105\125
\144\040\050\163\145\145\040\143\165\162\161\145\156\164\040\141
\144\144\162\145\163\160\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\050\061\022\060\020\006\003\125\004\005\023\011
\101\070\062\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\010\030\040\033\141\155\145\162\146\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
# 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):


CKA_CLASS CK_OBJECT_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

CKAIssuer MULTILINE_OCTAL
END

# Trust for "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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\130\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\154\040\143\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\167\156\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\106\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\030\040\103\141\155\145\162\146\151\162\155
\141\040\123\060\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):
# Fingerprint (SHA1):
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\120\203\061\013\060\011\006\003\125\004\006\023\002\125\123\061\120\060\016\006\003\125\004\010\023\007\101\162\151\172\157\156\141\061\123\060\021\010\060\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\150\040\101\165\164\150\157\162\151\164\171\040\155\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\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,
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
2650340061174356053014075370125253055222364376071
324347017016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
32607120130612217622261513743743121463550050362226
END
CKA_ISSUER_MULTILINE_OCTAL
0602012170610130600011006000312500400060230021251123
06102006001600600312500401002300710116211511721157
156141061023006002100600031250040070230121231431157
164164163144141154145061045060043006003125004012
0230340213164141162146151114515414404001241451431150
1561571541571471511451630540400111156143356061062
0600600060031250040030230511231641411621461511145
15414404001221571571640400103114516216415111461511143

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Starfield Services Root Certificate Authority - G2"

# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\011\006\000\03\125\004\006\023\002\125\123
\061\120\006\000\016\006\003\125\004\001\023\007\011\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\101\006\001\11\006\003\125\004\006\023\002\125\123
\061\120\006\000\16\006\003\125\004\001\023\007\011\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\023\160\003\125\004\003\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

END
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002001000
END

CKA_VALUE_MULTILINE_OCTAL
0602020003357060202002327240003002001002002001000
0600015006011052206110206367015001001013005000060
201230061013060011006000312500400622300125123061
02006001606000312500401002230071011620151172157156
1410612030600210060031250040070203121123143157164
1641631414115414505104505060043006031250040412023
0341231641611421461011415444040124145143150156
1571541571471511451630540401111156143056061073060
071006003125004003032306212316414116214651145154
144040412315162166151143145163040122157157164040
1031451621641511461143141164145140101165164150
157162151161641710400550401070620600360027015060071
06000170606016060606060600600606006060132027015603670601
0620630610620630650710650711320602012306011301603
011006003125004006023002125123061020600116066003
12500401002300710116215117215715614106120360021
00600301250040070203121231431571641641631441141154
14505101450506004300603125004012023034123164141162
146161154145144040124145143150156157154157147151
1451630540401111561430560610730600710060031250004
003023062123164141162146151145154144040123145162
166151143145163040122157157164040103145162164151
146161143141164145040101165164150157162151164171
04005504010706206002000104206001506006011502066110
206036701501001001005000030202001017006600202001
012002020010010003250140723040523711116342365276
0311227137216210123261037077313317237040231159051
07293100117507436715316607014331066140250233136
13400002262057131177366207371045103206347151033
12223222034116134333005501511651376301111331266
3363032126256053266164024353317373046343032272035
22260516203731302242111071263770450240223160123203
03322041640243031472360041500723372161001320351112
116317103322107313471263260016013122356173175256
0723472470613711053663032140317023131002053200314
06410733727133362201451550023317054221246246347336
205030111117414161162430721552512651356064056272015
# 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):**

# Fingerprint (SHA1):**

**# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "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):**

# Fingerprint (SHA1):**

**# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
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\060\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\161\163\144\141\154\145\061\145\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\141\144\040\124\145\143\150
\156\157\154\151\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\013\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\040\055\040\070\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):

cka_class CK_OBJECT_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\071\013\060\013\060\003\125\004\006\023\002\125\123
\024\060\022\006\003\125\004\012\014\013\011\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

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

CKA_CLASS CK_OBJECT_CLASS 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\n\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
# Certificate "AffirmTrust Networking"

# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

# Certificate "$ AffirmTrust Networking"
CKA_CLASS CK_OBJECT_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\040\061\125\006\000\125\006\000\122\014\013\011\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\040\061\125\006\000\122\014\013\011\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
"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):
CKA_CLASS CK_OBJECT_CLASS 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\014\072\000\265\162\157
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\000\1\232\232\114\251\124\101\111\315\300\325\177
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\102\145\312\276\000\1\232\232\114\251\124\101\111\315\300\325\177
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\000\1\232\232\114\251\124\101\111\315\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\130\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\120\141\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\060\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\101\174\117\004\071\103\432\024\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):
Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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\011\014\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\011\014\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\010\162\261\124\146\012\1356
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\010\155
\214\146\162\125\123\061\024\160\012\1356\060\001\155\006\011\052\026\011\012\026\0367
\015\001\001\014\005\000\000\060\010\061\001\060\011\006\003\125\004
\006\023\002\021\125\123\061\024\060\022\006\003\125\004\012\146\151\155\124\162\165\163\164\012\043\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
\164\040\120\162\145\155\151\165\155\006\036\027\015\065\010\060\060
\061\156\142\071\061\064\060\106\063\066\132\027\015\064\060\061\060
\063\061\064\060\060\063\066\132\060\010\061\013\060\011\006\011\006
\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004
\012\014\113\011\146\146\151\155\124\162\165\163\164\012\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\020\002\042
Open Source Used In Crosswork Common EMS Services 4.0.0 4399

# Trust for "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040
# Fingerprint (SHA-256):

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABELUTF8 "AffirmTrust Premium"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUE MULTILINE_OCTAL
\060\101\103\060\110\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\0146\151\121\155
\124\162\165\163\164\006\103\4\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\010\155\246\126\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):
# # Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_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\101\103\060\110\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\060\103\4\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\040\103\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\103\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\060\103\4\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\040\103\103

---

Open Source Used In Crosswork Common EMS Services 4.0.0  4400
# 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

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\005\206\110\316\075
\004\003\003\060\105\061\013\060\011\006\003\125\004\006\023\002
\125\123\016\024\060\022\060\003\125\016\123\016\126\165\163\164\061
\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061
\040\060\036\060\003\013\250\040\003\014\027\101\146\146\151\162\155
\124\162\165\163\164\040\120\161\145\155\151\165\155\040\105\103
\103\060\166\060\020\060\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\151\142\363\234
\046\134\007\075\345\124\372\243\326\314\022\352\364\024\137\350
\216\031\123\030\057\056\110\346\254\040\030\103\170\254\320\067\033\275
\262\235\054\346\107\342\032\346\143\270\075\056\057\170\034\117
\333\364\017\244\150\114\125\162\153\322\255\035\116\030\102\225\170
\314\067\074\222\134\232\313\045\053\051\243\102\060\100\006\003\050\006
\003\125\035\160\004\026\000\042\024\232\257\051\172\300\022\106\056\065
\046\121\016\060\000\030\152\376\100\325\256\326\074\060\017\006\003
\125\035\023\001\001\137\004\005\060\003\001\001\137\076\000\016\006
\003\125\035\017\000\100\137\004\004\030\002\000\106\060\120\006
\101\052\206\110\316\075\004\003\003\003\147\000\006\014\044\002\006
\027\011\363\207\210\120\132\257\310\300\012\277\107\137\365\154
\152\206\340\034\047\164\344\070\123\327\005\177\033\004\343\306
\057\263\312\011\074\067\235\327\247\010\063\135\241\342\161
\002\060\102\131\207\103\324\121\337\272\232\011\062\132\316\210
\176\127\075\234\137\102\153\365\007\055\265\360\022\223\371\131
\157\256\144\372\130\035\213\036\343\143\276\265\021\135\157\002
\214\171

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In Crosswork Common EMS Services 4.0.0  4401
# Not Valid After: Mon Dec 31 14:20:24 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "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\132\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 After: Mon Dec 31 12:07:37 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
\001\000\005\0000\003\0202\0001\0170\0000\060\0200\01012\0002\0202\0001
\001\000\034\333\373\175\243\162\273\302\030\011\024\020\273\365\153\000
\116\341\156\100\000\0072\273\155\047\135\177\367\133\055\263\132\307
\121\137\253\244\062\246\141\020\276\166\156\017\020\032\026\060\002\227
\370\032\171\127\241\030\071\135\152\144\171\130\060\011\131\254\074
\061\112\070\174\322\004\322\113\050\035\004\013\270\073\007\242\314
\115\163\333\363\256\117\307\126\325\132\247\226\113\372\363\253
\150\032\240\043\206\131\047\317\011\047\274\254\156\162\203\034\040\06
\162\237\340\242\325\112\323\314\164\165\031\275\052\236\173\025\124
\004\040\333\327\103\017\125\050\305\342\032\327\364\300\344\256
\070\111\063\314\166\205\237\071\110\035\222\244\343\362\022\214\121
\370\174\344\055\177\373\254\137\353\026\237\261\055\321\272\314
\121\102\167\114\045\311\122\070\157\333\360\314\373\216\036\227
\131\076\325\140\116\346\005\050\355\111\117\012\033\132\272\110\333
\057\371\162\232\071\312\337\063\333\064\162\365\264\100\317\061
\001\030\335\434\336\021\055\027\135\037\270\120\321\136\031\247\151
\336\007\063\050\301\121\202\225\371\247\124\313\124\206\021\015\0525
\371\111\000\023\000\010\000\012\243\010\060\010\006\017\006\003\125
\035\023\000\101\001\377\004\005\060\003\000\101\377\060\035\006\003
\125\035\016\004\026\004\024\010\166\331\531\003\077\004\43\366\030
\315\355\273\220\274\342\204\067\106\165\367\060\016\006\003\125
\035\017\001\001\377\004\004\003\000\020\001\060\060\015\060\011\052
\206\110\206\367\015\000\010\005\005\000\003\020\001\010\000\246
\250\025\504\231\600\017\524\243\377\141\232\031\102\235\213\136\162
\260\170\014\343\334\340\342\257\011\137\504\331\103\272\257\052\304\271
\125\004\265\020\243\215\047\336\013\202\143\320\356\336\014\067
\171\110\133\042\262\262\023\232\101\134\246\160\340\324\320\167\313
\043\323\000\340\154\126\057\341\115\015\153\312\252\277\041\201
\120\033\100\062\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\060\341\637\317\024\244\034\271\214\046\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\125\362\111\330\231\351\274
\126\203\161\360\344\206\032\322\061\112\272\057\276\055\023\132
\166\157\116\350\116\210\167\77\133\003\042\240\022\276\146\130
\021\112\313\003\304\246\052\052\055\226\027\340\071\124\274\110
\323\166\047\235\232\055\006\246\331\135\013\322\253\333\237\232
\013\047\002\065\051\261\100\225\347\371\135\023\125\210\031\1106
\326\267\060\365\176\316\071\232\331\070\361\121\367\117\054
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After : Mon Dec 31 12:07:37 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "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\137\106\054\211\145\122\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157\040\124\145\143\150\156\151\154\157\147\151\145\143\150\143\END
CKA_ISSUER MULTILINE_OCTAL\060\176\061\013\061\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\162\165\161\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\161\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 After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 “TWCA Root Certification Authority”</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE</td>
<td>CK_CERTIFICATE_TYPE CKC_X_509</td>
</tr>
<tr>
<td>CKA_SUBJECT</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_ID</td>
<td>UTF8 “0”</td>
</tr>
<tr>
<td>CKA_ISSUERMULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>
# 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 After : Tue Dec 31 15:59:59 2030

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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\0060\23\02\124\127\061\022\060\060\013\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\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

CKA_CLASS CK_OBJECT_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
# 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
# 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

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\012\244\325\314\272\264\373\243\131\134\346\001\133\123\331\116
END

CKA_ISSUER_MULTILINE_OCTAL
\060\137\061\103\060\011\100\06\003\125\004\006\023\002\116\114\061
\022\060\020\006\003\125\004\012\230\111\104\151\147\151\116\157
\164\141\162\061\032\060\006\003\125\004\003\023\021\110\141\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\101\001\206\021
\151\156\146\157\100\144\151\147\151\156\157\164\141\162\056\156
\154
END
# 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):

CKA_CLASS CK_OBJECT_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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

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):

CKA_CLASS CK_OBJECT_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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\135\061\130\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\165\040\122\157\157\164\03\01\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
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD." C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD." C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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\002\170\264\316\354\031\031\303\163\064\271\307\164

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\154\071\175\244\016\125\131\262\077\326\101\261\022\120\336\010

CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\001\110\065\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\156\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

CKA_TRUST_SERVER_AUTH CK_T Trust CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_T Trust CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_T 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=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Serial Number: ee:2b:3d:e6:32:ac:04:64:20:61:60:00:00:02:10:51:23
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,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

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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 CKC_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\000\012\004\006\023\002\105\123
\061\013\060\007\006\000\012\023\062\101\147\145\156\143
\151\141\040\010\141\164\141\154\141\156\141\140\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\012\055\060\070\060\066\061\067\066\055\111\051\061\050\060
\046\006\003\012\050\013\023\037\123\145\162\166\145\151\163\040
\020\016\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\160\161\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\163\141\143\151\157\040\050\116\111\106
\151\141\040\010\151\156\164\151\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\013\141\164\141
\154\141\156\145\163\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\073\061\013\060\011\006\000\012\025\004\006\023\002\105\123
\061\013\060\007\006\000\012\023\062\101\147\145\156\143
\151\141\040\010\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\012\055\060\070\060\066\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

Open Source Used In Crosswork Common EMS Services 4.0.0 4415
END

# For Server Distrust After: Sat Dec 28 00:00:00 2019
CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
\061\071\061\062\062\060\060\060\060\060\060\132
END

# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\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
# 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):

# CKA_CLASS CK_OBJECT_CLASS 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\001\11\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\016\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
# 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

END

CKA_ID UTF8 "0"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002002035600530175\353\324\336\024\015\023\013\011\015\013\013\015\013\015
3040001

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED 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):

CKA_CLASS CK_OBJECT_CLASS 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"

# Fingerprint (SHA1):

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\024\021\366\246

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\033\033\033\037\012\076\050\004\274\021\136\60:246

END

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\001\110\060\003\125\004\006\023\002\111\124\061
\016\060\014\060\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\010\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\060\003\125\004\003\014\036\101
\143\164\141\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\013\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\122\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

Open Source Used In Crosswork Common EMS Services 4.0.0 4422
# 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


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_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\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\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\124\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\062\067\061\040\060
\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
\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
# Trust for "Buypass Class 2 Root CA"

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issuer: CN</td>
<td>Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO</td>
</tr>
<tr>
<td>Serial Number: 2</td>
<td>0x2</td>
</tr>
<tr>
<td>Not Valid Before:</td>
<td>Tue Oct 26 08:38:03 2010</td>
</tr>
<tr>
<td>Not Valid After:</td>
<td>Fri Oct 26 08:38:03 2040</td>
</tr>
</tbody>
</table>

**Fingerprint (SHA-256):**


**Fingerprint (SHA1):**


CKA_CLASS CK_OBJECT_CLASS 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

---

**Open Source Used In Crosswork Common EMS Services 4.0.0 4425**
# 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

CKA_CLASS CK_OBJECT_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\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
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buyass Class 3 Root CA,O=Buyass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buyass Class 3 Root CA,O=Buyass 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):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"

END

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\060\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

# 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 After : Sat Oct 01 23:59:59 2033
Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
### # 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)
# Not Valid After : Sat Oct 01 23:59:59 2033

# Fingerprint (SHA-256):


---

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

---

CKA_CLASS CK_OBJECT_CLASS 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\123\145\162\166\151\143\145\163\160\103\140\061\037\060\035\006\003\125\004\006\023\002\104\105

---

CKA_CORRELATION_ID MULTILINE_OCTAL
\123\145\162\166\151\143\145\163\160\103\140\061\037\060\035\006\003\125\004\006\023\002\104\105

---

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

---

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001

---

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

---

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

---

CKA_CLASS CK_OBJECT_CLASS 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\123\145\162\166\151\143\145\163\160\103\140\061\037\060\035\006\003\125\004\006\023\002\104\105

---

CKA_CORRELATION_ID MULTILINE_OCTAL
\123\145\162\166\151\143\145\163\160\103\140\061\037\060\035\006\003\125\004\006\023\002\104\105

---

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "D-TRUST Root Class 3 CA 2009"

# Issuer: CN=D-TRUST Root Class 3 CA 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 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):

CKA_CLASS CK_OBJECT_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 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\016\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\016\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\112\063\367\015\001\001\013\005
\000\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105
\061\102\206\002\033\006\003\125\004\012\014\014\016\055\124\162\165
\163\164\040\107\155\142\110\061\047\060\045\006\003\125\004\003
\014\103\142\124\112\125\123\124\040\122\157\157\164\040\103\154
\154\141\163\163\040\063\040\103\101\040\062\040\062\060\060\071
\060\036\027\015\060\071\016\106\106\065\060\070\063\065\065\070
\132\027\015\062\071\016\106\106\065\060\070\063\065\065\070\132
\060\115\061\013\060\011\006\003\125\004\006\023\002\104\105\061
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 2009"

# Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623603 (0x983f3)
# Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:35:58 2009
# Not Valid After: Mon Nov 05 08:35:58 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END
# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"

# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_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\010\006\003\125\004\006\023\002\104\010\050\061
\025\060\023\006\003\125\004\012\014\014\010\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\104\062\040\105\126\040\062\060
\060\071
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\010\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\010\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\104\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\001\052\206\110\206\367\015\001\001\013\005
\000\060\120\061\013\060\001\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\010\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\104\062\040\105\126\040\062\060
\060\071
END

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END 

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After : Mon Nov 05 08:50:46 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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\137\61\140\372\271\026\03

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\304\064\300\120\117\021\002\17\266

END

CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\001\100\060\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\14\014\014\055\124\163\165\163
\164\040\107\155\142\110\061\052\060\050\06\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
# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After: Sat Jul 19 09:15:30 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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\001\100\060\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\162\141\164\151\163
\154\141\166\141\061\102\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\013\010\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\021\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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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
# 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):

# Certificate "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)

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

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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\13\060\011\006\003\125\004\006\023\02\124\127\061
\022\060\02\006\003\125\004\012\023\011\124\101\111\11\127\101\116
\055\103\101\061\02\02\060\016\006\003\125\004\013\23\007\122\157
\157\164\040\103\101\061\03\02\33\02\03\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\13\060\011\006\003\125\004\006\023\02\124\127\061
\022\060\02\006\003\125\004\012\023\011\124\101\111\11\127\101\116
\055\103\101\061\02\02\060\016\006\003\125\004\013\23\007\122\157
\157\164\040\103\101\061\03\02\33\02\03\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\124\000\03\020\010\020\02\014
\276\60\015\006\011\052\206\11\020\367\015\001\001\013\005\000
\060\121\061\13\060\011\006\003\125\004\006\023\02\124\127\061
\022\060\02\006\003\125\004\012\023\011\124\101\111\11\127\101\116
\055\103\101\061\02\02\060\016\006\003\125\004\013\23\007\122\157
\157\164\040\103\101\061\03\02\33\02\03\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\124\000\03\020\010\020\02\014
\276\60\015\006\011\052\206\11\020\367\015\001\001\013\005\000
\060\121\061\13\060\011\006\003\125\004\006\023\02\124\127\061
\022\060\02\006\003\125\004\012\023\011\124\101\111\11\127\101\116
\055\103\101\061\02\02\060\016\006\003\125\004\013\23\007\122\157
\157\164\040\103\101\061\03\02\33\02\03\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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
# Certificate "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# 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):

# Certificate "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# 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):
END

# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\063\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-Tugra E...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-Tugra E...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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
END

CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “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
<table>
<thead>
<tr>
<th>Certificate</th>
<th>Serial Number</th>
<th>Subject</th>
<th>Not Valid Before</th>
<th>Not Valid After</th>
<th>Fingerprint (SHA-256)</th>
<th>Fingerprint (SHA1)</th>
</tr>
</thead>
</table>

# 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 After: Sat Oct 01 23:59:59 2033
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_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\001\11\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\161\151\143\145\163\040\107\155\142\110\061\103\160
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\001\11\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\161\151\143\145\163\040\107\155\142\110\061\103\160
\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\303\060\202\002\253\240\003\002\001\002\002\001\001
\060\015\006\011\052\206\110\206\110\206\367\015\001\001\013\005\000\060
\201\202\014\013\060\011\006\003\125\004\006\023\021\014\010\056
\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\165\151\143\145\163\040\107\155\142\110\061\103\076
\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
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\014\213\071\353\171\132\215\025\234\330\024\015\n\366\172\007\127\307\042\203\005\055\074\233\045\046\075\030\263
\125\103\174\310\253\144\217\016\243\277\234\033\235\060\333
\132\200\131\056\252\074\361\310\310\253\144\217\132\215\025\234\330\024\015
\005\047\216\023\241\156\302
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 2"
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_ISSUER MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317\n\027\330\022\4\351
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
END

CKA_NSS_MOZILLA_CA_POLICY 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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\003\015\000\003\125\004\003\014\025\101\164\157
\163\040\124\161\165\163\164\145\144\122\157\157\164\040\062\060
\061\061\060\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\013\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
# 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):
CKA_CLASS CK_OBJECT_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\001\011\060\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\012\116\5157\126\141\144\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\001\011\060\003\125\004\006\023\002\102\115\061\031\060\027\006\003\125\004\012\023\020\012\116\5157\126\141\144\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\020\022\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\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060\06
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# 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
CKA_CLASS CK_OBJECT_CLASS 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\020\032\163\163\013\036\034\006\003\023\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\036\060\034\006\003
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\274\133\077\376\067\232\372\144\360\034\372\005\075\013\253
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\100\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
End
# Certificate "QuoVadis Root CA 2 G3"

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

# Certificate "QuoVadis Root CA 2 G3"

# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# 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):
```plaintext
# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
```

Open Source Used In Crosswork Common EMS Services 4.0.0 4469
# 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
CKA_CLASS CK_OBJECT_CLASS 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\141\151\155\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\121\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
# 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
CKA_CLASS CK_OBJECT_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\103\060\011\100\006\003\125\004\006\023\002\102\115\061
\031\106\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\003\006\000
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\031\010\040\063\040\010\07\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\103\060\011\100\006\003\125\004\006\023\002\102\115\061
\031\106\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\003\006\000
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\031\010\040\063\040\010\07\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\006\011\060\013\060\011\060\003\125\004\006\023\020\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\110\040\063\040\107\063\060\036\027\015
\061\010\062\060\061\061\062\060\062\060\062\060\062\060\063\060\062\132\027\015\064
\062\060\060\061\061\062\062\060\062\060\063\060\062\132\060\110\061\013
\060\011\100\006\032\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\020\020\024\020\060\150\006\011\052\206
\11\020\06\367\015\001\010\010\005\000\003\022\002\017\000\060\020
\002\012\012\020\022\002\002\100\001\263\313\106\016\020\147\216\352\024\227
\247\062\052\012\162\066\177\150\114\302\163\157\072\043\032\204\221
\377\031\177\245\312\125\435\263\166\235\172\351\121\033\253\153
\061\133\337\201\132\114\247\305\245\032\171\074\212\114\377\254
\337\045\336\163\311\202\062\103\104\336\312\333\214\254\243\156
\026\203\073\246\144\113\062\211\137\302\026\020\076\176\353\103\342
\32\314\161\112\302\142\012\163\012\335\111\1263\127\322\260\012\205
\235\161\074\336\243\331\300\062\363\300\071\040\103\033\065\321
\12\263\261\136\305\223\151\202\076\026\265\50\106\241\363\352
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\034\071\006\034\071\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\133\211\127\003\227\103\260\327
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\006\101\130\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\203\020\121\165\157\126\141\144
\151\163\040\14\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
# Certificate "DigiCert Assured ID Root G2"

# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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

CKA_CLASS CK_OBJECT_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
\006\015\020\013\060\011\006\003\125\004\006\023\002\125\123\061\101\060\023\003\003\125\004\012\023\014\014\151\151\151\103\145\162\164\040\011\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\101\060\023\003\003\125\004\012\023\014\014\151\151\151\103\145\162\164\040\011\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\060\011\006\003\125\004\006\023\002\125\123\061\101\060\023\003\003\125\004\012\023\014\014\151\151\151\103\145\162\164\040\011\163\163\165\162\145\144\040\111\104\040\122\157\157\164\040\107\062

END
# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\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
# 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):
CKA_CLASS CK_OBJECT_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_ISSUERUTF8 "DigiCert Assured ID Root G3"
CKA_SUBJECTUTF8 "$C_{\text{iss}}$"

\060\202\002\135\240\003\002\000\100\002\002\020\013
\241\132\372\035\333\372\240\265\111\110\245\15\354\060
\012\006\010\052\206\110\316\075\004\003\003\060\145\061\130\060
\010\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003
\125\004\010\120\230\141\044\151\147\151\103\145\161\040\111\115
\143\061\103\060\270\066\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\200\004\003\023\033\104\151\147\151\103\145\162\164\040
\101\163\163\161\165\162\144\144\004\111\040\012\221\157\157\164\040
\107\063\060\036\027\015\061\063\060\070\060\061\061\062\060\060
\060\060\013\202\070\105\063\070\060\010\105\061\062\060\060
\060\013\060\014\056\101\130\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\030\100\002\001\006\005\053
\201\004\000\042\003\142\000\004\031\347\274\254\104\145\355\321\152\161
\251\110\045\050\025\362\357\013\377\020\164\237\265\142\122\137
\146\176\037\345\333\033\105\171\013\134\060\123\012\235\151\135
\002\033\125\111\133\360\002\132\366\225\052\016\215\070\112\121\111
\306\274\306\003\070\007\137\125\332\176\011\156\342\177\116\320
\105\040\017\131\166\020\326\240\044\360\055\336\066\362\154\051
\071\123\102\060\100\060\017\060\003\125\355\023\001\001\137\004
\005\060\003\001\001\137\070\006\016\060\003\125\355\017\000\010\137
\004\004\003\002\000\126\060\035\006\003\125\355\160\004\026\000
\024\313\332\027\251\134\123\005\121\241\115\067\242\203\171\316
\215\205\052\234\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\222\113
\165\164\117\310\043\343\160\036\215\162\336\174\211\136\317\221
\162\214\236\316\020\222\131\126\271\203\307\020\347\070\351\130
\046\066\175\352\325\440\064\206\071\012\026\017\046\133\060\063\345
\142\143\072\231\134\226\243\073\233\064\372\036\322\020\222\161
\136\221\023\247\335\244\156\222\140\062\232\365\041\146\307\057
\352\232\143\152\145\105\222\255\010\1264

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE CK_CERITFICE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\140\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\104\006\036\006\003\125\004\030\227\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\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\151\147\151\103\145
\162\164\140\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\104\006\036\006\003\125\004\030\227\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\125\124\027\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\125\124\027\035\011\372\345
END

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\055\040\005\251\202\267\223\143\032\154\060\334\332\037\031\261\\327\036\333\365\327\334\011\232\020\067\256\354\037\103\116\335\\173\054\32\027\256\056\245\057\344\251\270\255\072\32\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\227\325\126\243\151\222\062\153\265\363\3127\\350\135\033\151\214\035\253\225\004\225\111\363\065\055\226\343\\111\155\335\167\343\373\111\113\264\254\125\072\251\217\225\263\\264\043\273\114\155\105\360\366\252\262\225\060\264\375\114\125\\214\047\112\127\204\174\202\235\315\163\222\232\026\12\006\014\\214\120\32\17\036\011\276\027\241\346\041\131\375\203\345\020\\27\42\03\245\012\03\04\147\050\036\66\163\024\024\075\106\166\03\307\\02\42\11\041\064\115\257\017\105\014\246\11\241\272\273\234\305\\261\063\203\051\205\002\003\001\124\10\206\100\060\017\\006\003\125\035\023\001\100\137\040\050\060\009\003\001\001\137\070\060\\016\006\003\125\035\017\010\010\137\077\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\173\237\271\022\355\006\027\217\071\106\001\15\\006\011\052\206\110\206\367\15\001\001\013\005\000\003\202\001\\001\000\140\147\050\224\157\016\111\143\353\061\335\352\147\030\\325\221\17\034\051\213\113\217\373\351\333\053\027\337\260\137\\163\167\052\062\023\071\201\147\102\204\043\362\105\147\065\354\\210\127\370\272\176\260\141\014\064\244\256\040\114\204\306\333\370\\065\341\166\331\333\373\246\102\273\307\104\010\206\177\066\164\044\\132\332\154\150\024\131\065\257\362\211\133\352\266\037\311\263\015\\107\052\075\231\057\273\134\273\265\324\040\341\231\137\123\106\\025\333\150\203\336\063\060\325\076\061\134\221\251\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\226\126\231\241\157\023\261\101\161\136\376\210\052\310\117\020\\040\125\327\63\024\105\345\340\104\364\343\252\072\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\261\131\103\210\012\144\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\\CAK_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE\\CAK_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE\\CAK_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU.www.digicert.com,O=DigiCert Inc,C=US
# 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):
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CKA_CLASS CK_OBJECT_CLASS 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\016\167\167\167\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\003\036\060\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
# 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):
CKA_CLASS CK_OBJECT_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"
# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\231\122\011\372\066\036\017\372\127\126\312

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\176\004\336\231\122\011\372\127\126\312

CKA_ISSUER MULTILINE_OCTAL
\060\141\060\101\130\060\101\100\060\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\010\147\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\016\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\040\060\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
# Certificate "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US

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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\020\005\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\106\003\125\004\000\023\030\041\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\127\236\216\041\062\342\071\007\275\247\167
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\014\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\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\234\0271\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
# 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):

CKA_CLASS CK_OBJECT_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

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
END

# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273
\315\172\214\264
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\100\066\63:14\024:066:221\125:304:076:375:354:030
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\206:235
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "USERTrust RSA Certification Authority"
#
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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
# Certificate "USERTrust ECC Certification Authority"

# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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
CKA_CLASS CK_OBJECT_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
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_VALUE MULTILINE_OCTAL
END
END

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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

END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
06012000610446060042000603312500401302300331071541157
01201210120101541142141154123151147156061023060
0210006003125000400030230121071541157142141154123151
1471156

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002020114011311113400046056273125371012167212161371
112330154

END

CKA_VALUE MULTILINE_OCTAL
0601202000236060202000124424000030020010020020211140
0131111340046056273125371012167212161371112330154
060012006001005220611031607500400300006001200061044
060002006003125004013023003310715411571421411541123
15114711560401051031030401221571157164040103101040
0550401221065061012306002106003125004012023012107
15411571421411154123151147115606102306002106003125
00040023003121010715411571421411541231511471156
0270156010620610610610630600600600600600600600600600
0115063070060061071060063061064060067132060120
061104406004200060031250040130230331071541157142141
1541123115114711560401051031030401221571157164040103
011040055040122106506102306002106003125004012023
012101710154115714214111541231511471156061023060021006
003112500400302301210715411571421411541231511471156
060116606062000600752020611031607500201006005053
0210014000400240331420000401071050226233711751135277
3511071321041137023701312663251173036222072110131034
36014220610553000172050573063224711342632660314227347
10532413037232111671551032243002071450640120371172
335139046324153052351152441571101225070177311036
2043533321236111122202722242071014072205112146237235
1311221135227141106206111224310206101000600161006003
12503501700100103770040040030020100100600117006003
12503502300100113770040050600003010011377006035006
003125035016004206604207453460511102333520073112
0411041120463361156336332203320237317110600112006010
0522061110316075004003003003150000600145002061000

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/* Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\151\377\255\117\335\137\106
072\033\151\252
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\101\100\100\055\040\122\165\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\020\114\013\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):
CKA_CLASS CK_OBJECT_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\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\000\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\000\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\061\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\060\011\006\003\125\004\006\023\002\116\114\061\036\060\034\000\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\000\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\061\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\15\02\06\110\206\136\70\15\001\001\013\005\000\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061\114\061\036\060\034\000\003\125\004\012\014\025\123\164\141\141\164\040\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061

\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\310\252\173\361\222\333\141
\332\220\045\026\145\300\124\351\056\003\073\133\167\002\234
\204\266\015\230\137\064\435\073\143\330\303\050\201\302\234\405\1
\056\015\342\310\303\001\362\063\352\052\252\314\011\010\367\145
\147\306\315\337\333\232\266\053\247\275\313\432\010\161\60\137\270\0043
\321\133\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
\20\016\57\11\173\075\121\207\241\074\164\042\303\374\007\177
\200\334\304\254\347\376\152\301\160\060\260\351\126\151\342\054\151
\201\124\011\272\335\376\115\150\020\314\224\130\300\106\040\257
\23\40\037\002\370\065\125\111\057\106\324\300\360\240\226\002\017
\063\305\161\136\323\064\313\171\224\267\375\072\323\011\203\006\041
\375\140\075\256\062\030\322\356\151\246\360\347\264\202\174\012
\314\160\311\171\200\037\307\361\114\367\065\204\031\122\061\137\301\12
\331\137\217\233\330\242\232\153\303\005\112\355\101\140\024\060
\321\125\201\012\156\323\043\002\004\013\306\145\335\335\122\167
\332\201\153\262\250\372\001\070\271\122\352\052\154\147\227\211
\122\4\263\027\34\112\4\232\254\152\107\132\275\033\232\075\100
\176\206\300\169\322\156\373\150\060\354\343\213\235\371\111\065
\23\32\054\353\311\263\225\071\325\062\223\367\246\271\145\057\345
\075\155\072\11\140\010\334\344\050\022\050\276\175\065\134\352
\340\026\176\023\030\152\327\076\327\236\374\055\165\262\301\024
\325\043\300\333\133\157\013\076\170\057\15\336\063\215\026\267
\110\347\023\032\201\017\1\373\301\103\151\25\040\270\070\112\121
\325\131\242\211\116\4\323\237\276\036\113\327\306\155\267\210\044
\157\140\222\144\020\025\133\126\101\274\320\104\253\152\023\212
\321\054\130\306\222\063\130\262\067\143\334\023\365\224\035\077
\100\121\365\117\365\027\355\310\305\353\302\036\035\026\225\172
\030\176\102\161\123\156\113\025\267\060\337\252\355\127\205\110
\254\035\153\235\307\115\134\344\314\171\170\276\316\005\277\241\014
\367\200\173\041\147\047\060\131
END
CKA_NSS_MOZILLA_CA_POLIC CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
When a user first interacts with a trust certificate, the users' cert policy will be queried to determine whether the certificate is trusted. A trust certificate is typically provided by an operating system certificate manager and can be trusted by either the browser or the certificate manager.
# 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

**CKA_CLASS,** **CK_OBJECT_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

**CKA_SERIAL_NUMBER**, MULTILINE_OCTAL

**CKA_VALUE**, MULTILINE_OCTAL

END

**CKA_ID,** UTF8 "0"

**CKA_ISSUER**, MULTILINE_OCTAL

**CKA_SERIAL_NUMBER**, MULTILINE_OCTAL

**CKA_VALUE**, MULTILINE_OCTAL

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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_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\060\007\0110\006\003\125\004\006\023\002\125\123\061
\020\060\020\006\003\125\004\010\123\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\154\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_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_TRUE
CKA_PRIVATE CK_FALSE
CKA_MODIFIABLE CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_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\010\123\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\154\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END

# 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):
CKA_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_TRUE
CKA_PRIVATE CK_FALSE
CKA_MODIFIABLE CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\15\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\010\123\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\154\145\162\143\151
\141\154\040\122\157\157\164\040\103\101\040\061
END
\216\331\040\235\123\053\177\253\217\342\352\060\274\120\067\357
\361\175\147\054\004\354\150\235\264\111\104\020\364\162
\113\034\144\347\374\346\153\220\035\151\175\151\375\000\126\245
\267\254\266\255\267\312\076\001\135\723
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After : Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\151\055\375
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\123\257\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\23\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\000\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):

CKA_CLASS CK_OBJECT_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\060\013\060\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\000\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\011\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\060\017\060\060\076\000\03\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\011
\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\000\03\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\0107
\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\011\006\000\11\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\011\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\060\017\060\060\076\000\03\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\164\162\165\163\164\054\040\011
\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\000\03\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\0107
\062
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "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
CKA_CLASS CK_OBJECT_CLASS 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
\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\220\003\370\266\215
\224\143\042\224\161\002\003\001\000\000\123\102\060\100\006\000\16
\006\003\125\051\017\001\000\137\77\040\004\003\002\001\006\006\000\17
\006\003\125\050\023\001\000\137\77\040\005\060\003\001\001\137\77\060
\035\006\003\125\035\016\004\026\004\002\241\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\11\163\021\254\103\321\365\023\377
\215\071\053\300\362\275\117\160\214\251\057\352\273\304\013\124
\236\320\033\226\230\063\074\250\255\142\224\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\010\245\322\267\364\265\232
\066\277\251\120\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\004\223\351\154\223\232\323\040\075\277
\202\033\145\077\246\017\135\252\374\345\345\262\025\12\265\255\306
\274\075\320\204\350\352\006\162\260\115\071\062\170\277\076\021
\234\013\244\235\232\204\136\360\233\013\060\170\333\301\334\207
\103\376\274\143\232\312\305\302\034\331\130\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\244\177\164\203\232\111\327\334\116\173\212\110\157\213
\105\366

Open Source Used In Crosswork Common EMS Services 4.0.0 4518
"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):
#
# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

OPENSSL CONF

# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_CLASS 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
\135\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\020\277\061\013\060\001\111\006\003\125\004\006\023\002\125\123
\061\020\060\024\006\003\125\004\012\023\105\156\164\162\165
\163\164\054\040\111\165\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\156\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\000\043\023\060\050\143\051
\040\062\060\061\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\013\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\105\100\000\000\000\0120\320\221\371
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
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):

Open Source Used In Crosswork Common EMS Services 4.0.0 4522
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>&quot;CFCA EV ROOT&quot;</td>
</tr>
<tr>
<td>CKA_ID</td>
<td>&quot;0&quot;</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>Multiline Octal</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>Multiline Octal</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>Multiline Octal</td>
</tr>
</tbody>
</table>

---

Open Source Used in Crosswork Common EMS Services 4.0.0 4523
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
CKA_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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"
# Certificate "OISTE WISeKey Global Root GB CA"

# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# 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):

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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
# 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):

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED 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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

# Certificate "SZAFIR ROOT CA2"

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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002002016626104012211643602052071061263370043032366
302300

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
# 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):

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002002016626104012211643602052071061263370043032366
302300

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for “SZAFIR ROOT CA2”
# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# 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):
CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
\342\122\372\225\077\355\333\044\140\275\156\050\363\234\314\317
\136\263\077\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
# Certificate "Certum Trusted Network CA 2"

# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# 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):

cka_class CK_OBJECT_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\012\023\036\010
\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

cka_id UTF8 "0"
ckaIssuer 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\012\023\036\010
\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

Open Source Used In Crosswork Common EMS Services 4.0.0 4532
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"

END

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\134\002\312\054\330\157\007\331\311\065\332\100\165\362\304
\247\031\157\236\020\202\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_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\331\045\155\010\043\133\136\164\175\036\047\333\362

END

CKA_ISSUER MULTILINE_OCTAL
\060\020\120\006\011\013\060\011\006\003\125\004\006\023\002\120\014
\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\066\011\047\060\045\056\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
# 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):

# Certificate Type CK_Certificate_Type CKC_X_509

# Subject MULTILINE_OCTAL

END

# CKA_ID UTF8 "0"

Open Source Used In Crosswork Common EMS Services 4.0.0 4536
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\311\351\017\255\204\375\173\030\316
END

CKA_ISSUER MULTILINE_OCTAL
\060\021\246\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\017\060\150\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\012\006\003\125\004\012\023\073\110\145\154\154
\145\151\111\143\040\101\113\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\113\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
# 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

CKA_CLASS CK_OBJECT_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_SUBJECT MULTILINE_OCTAL
06060011306000110060003125004000600230021071122
06110706001506060031250040007023006101116415011451156
1630610104060102060600312500401202307311011451154
14511561151143040101114311411441145115511511430401411156
14400412214516314514141621431500401111561631641151
1641651641511571561630401031451621640560401001165
1641501571621511641710611040601020006003125004003
0230731101145154115411501143040101114311411441145
1551143143040141156144040012214516314514162143150
04011111561631641511641651641511157156163040105103
10304012214151371641031101040062060061065

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0602011252061101306001110060003812500400060230021071122
06110706001506060031250040007023006101116415011451156
16306101040601020606003125004012023073110114511541154
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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
\002\200\201\006\060\035\006\003\125\035\016\004\026\004\024\264\402
\013\202\231\044\001\016\234\273\344\016\375\277\373\227\040\223
\231\052\060\010\206\110\316\075\004\003\002\003\147
\000\060\144\002\060\014\317\161\266\142\070\024\254\142\105\247\251
\225\044\300\032\047\234\062\073\300\032\035\272\251\134\70\004
\103\123\055\361\124\013\363\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\133\042\010\161\214\023\230\070\232\124\155\233\312
\342\174\352\002\062\130\042\221
END
# Certificate "ISRG Root X1"

# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# 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

CKA_CLASS CK_OBJECT_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
\001\177\010\013\012\003\125\004\006\023\002\125\123\061
\015\006\037\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
\1061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\001\177\010\013\012\003\125\004\006\023\002\125\123\061
\015\006\037\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
\1061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\020\020\031\127\160\322\100\343\131\048\143\340\273\143
\202\13\000
END

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

**CA_NSS_MOZILLA_CA_POLICY** CK_BBOOL CK_TRUE
**CA_NSS_SERVER_DISTRUST_AFTER** CK_BBOOL CK_FALSE
**CA_NSS_EMAIL_DISTRUST_AFTER** CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):

**CA_NSS_MOZILLA_CA_POLICY** CK_BBOOL CK_TRUE
**CA_NSS_SERVER_DISTRUST_AFTER** CK_BBOOL CK_FALSE
**CA_NSS_EMAIL_DISTRUST_AFTER** CK_BBOOL CK_FALSE
# Certificate "Amazon Root CA 1"

# Issuer: CN=Amazon Root CA 1, O=Amazon, C=US
# 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):
CKA_CLASS CK_OBJECT_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\020\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\020\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\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

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Open Source Used In Crosswork Common EMS Services 4.0.0 4550
# Certificate "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

# Certificate "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# 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):

CKA_CLASS CK_OBJECT_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\100\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\100\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\323\226\065\206\237\012\173\345\206\170\370 \133\046\273\212\067
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\101\060\202\003\051\124\003\002\001\002\002\023\006
\154\237\322\226\065\206\237\012\173\345\206\170\370 \133\046\273\212\067
\121\067\060\015\006\011\052\206\110\206\367\015\001\001\014\005
\000\060\071\061\103\060\011\100\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\060\060\060\060\060\060\060\132\027\015\064
\060\060\065\062\060\060\060\060\060\060\060\132\060\071\061\013
\060\060\011\100\006\003\125\004\006\023\002\125\123\061\107\160\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\060\031\125\004\003\023\020\101\155\141\172\157\156\040\122\157
\157\164\040\103\101\040\062\060\020\020\020\042\060\015\006\011\052
\206\01\106\036\071\015\001\001\005\000\003\202\002\017\000\060
\02\02\01\102\002\202\002\001\000\255\226\237\055\234\112\114\112
\201\117\121\231\135\212\313\153\140\121\023\274\115\155\006\374
\260\010\215\355\031\020\152\307\046\014\065\330\300\157\040\204
\351\224\261\123\205\003\033\133\333\123\350\310\370\220\166\331
\133\117\343\114\350\006\066\115\314\232\254\075\014\220\053\222
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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"

END

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\145\244\332\230\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\136\232\200\020\120\047\007\305\361\326\307\323
\340\373\011\140\154

END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\100\061\003\125\004\100\023\002\125\123\061
\017\060\015\006\003\125\004\102\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\010\115\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\325\164\040\103\101\040\063
\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
# 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):
CKA_CLASS CK_OBJECT_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\017\010\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\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_OCTAL
\060\071\010\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\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\022\066\146\077\073\013\232\331\350
\236\166\003\362\112
END
CKA_VALUE MULTILINE_OCTAL
\060\020\001\266\060\020\001\133\240\003\002\001\002\002\023\006
\154\237\325\164\227\066\146\077\073\013\232\331\350\1236\166\003
# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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_SERVER_DISTRUST_After CK_BBOOL CK_FALSE
CKA_EMAIL_DISTRUST_After CK_BBOOL CK_FALSE
# Certificate "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# 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
CKA_CLASS CK_OBJECT_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
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# 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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
\071\036\051\221\153\202\373\162\347\104\331\215\303
\314\123\155\144
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\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\003\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\003\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\010\030\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\126\126\151\155\141\162\171\040\103\145\151\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
# 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


# 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):


# Class CK_OBJECT_CLASS CKO_CERTIFICATE

# Token CK_BBOOL CK_TRUE

# Private CK_BBOOL CK_FALSE

# Modifiable CK_BBOOL CK_FALSE

# Label UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"

# Certificate Type CK_CERTIFICATE_TYPE CKC_X_509

# Subject MULTILINE_OCTAL
\060\224\061\013\060\001\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\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
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\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

# ID UTF8 "0"

# Issuer MULTILINE_OCTAL
\060\224\061\013\060\001\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\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
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\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
# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS 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 \
100263061240351277350125274071223312160117116302
\121324035217
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After: Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS 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\347\324\256\121\137\231\010315\077\366\350\303\170
\337\157\357\227 END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\042\146\230\176\326\003\340\01116\134\165\126\105\277 END
CKA_ISSUER MULTILINE_OCTAL
\060\105\061\103\060\011\006\013\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\140\141\040\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):
CKA_CLASS CK_OBJECT_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\061\322\061\011\006\011\125\004\006\023\002\124\122
\061\030\060\026\060\003\125\004\007\023\017\107\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\010\000\000
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\075\221\173\176\300\041\123\114\207\355\362\013\124\225\121\223
\325\042\245\015\212\352\057\047\057\057\013\217\015\344\350
\221\335\356\312
END

CKA_NSS_Mozilla_CA_policy 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):
CKA_CLASS CK_OBJECT_CLASS 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\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\161\111
END

CKA_ISSUER MULTILINE_OCTAL
\062\021\322\061\013\060\001\110\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\07\145\142\172\145
\040\055\040\113\157\143\141\145\154\151\061\102\060\010\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\050\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\055
\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
# 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): 
CKA_CLASS CK_OBJECT_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\012\061\013\060\001\110\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\110\103\101\124\105
\040\010\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\137\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\012\061\013\060\001\110\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\110\103\101\124\105
\040\010\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\137\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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
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\001\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\104\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):
# 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\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\022\060\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\204\123\171\163\164\145
\155\163\040\123\056\040\044\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\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\069\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\204\122\157\157\164\103\145
\162\164\040\103\101\055\061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\244\061\013\060\011\010\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\060\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\204\123\171\163\164\145
\155\163\040\123\056\040\044\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\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\069\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\204\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\023\332\233\354\161\363\003\260\031

END

Open Source Used In Crosswork Common EMS Services 4.0.0 4578
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\101\014\006\120\141\156\141\155
Certificate "TrustCor RootCert CA-2"

Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.L.,L=Panama City,ST=Panama,C=PA


Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.L.,L=Panama City,ST=Panama,C=PA

Not Valid After: Sun Dec 31 17:26:39 2034

Fingerprint (SHA-256):

Fingerprint (SHA1):

CLASS CK_OBJECT_CLASS
TOKEN CK_BBOOL
PRIVATE CK_BBOOL
MODIFIABLE CK_BBOOL
LABEL UTF8 "TrustCor RootCert CA-2"
CERTIFICATE_TYPE CK_CERTIFICATE_TYPE
SUBJECT MULTILINE_OCTAL

Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.L.,L=Panama City,ST=Panama,C=PA
\013\033\077\120\055\177\263\307\172\032\026\200\140\370\212
\037\351\033\052\230\063\371\127\020\001\032\151\177\232\120\307\124\127
\101\217\341\071\140\167\113\254\131\204\032\210\136\133\53\137\117
\170\327\347\341\063\055\374\356\101\372\040\260\276\131\367\070
\224\300\341\132\205\017\273\355\054\163\253\355\376\222\166\032
\144\177\133\015\063\001\007\063\173\006\177\021\244\134\160\074
\205\300\317\343\220\250\203\167\372\333\334\035\214\150\147\020
\147\245\122\055\360\034\231\127\177\273\321\153\342\265\107\326
\331\132\205\021\231\151\224\233\017\131\215\356\000\132\107\035\021
\003\254\101\030\257\072\267\157\014\072\217\312\137\334\003\301
\242\011\310\345\375\200\136\310\140\102\001\033\032\123\132\273
\067\246\267\274\272\204\351\036\154\032\324\144\332\324\010\337
\223\213\113\362\054\171\026\020\242\223\013\210\217\241\330\206
\024\106\221\107\233\050\004\357\127\122\116\134\102\234\252\267
\111\135\047\350\010\036\026\236\246\211\042\162\234\365\015\063\264
\130\243\060\007\333\352\241\152\124\223\276\032\115\363\223\224\367
\374\204\013\077\204\040\134\064\040\104\305\332\255\274\012\301
\002\213\036\345\224\303\313\363\216\133\330\14\360\235\354\141\027
\127\024\062\124\140\002\051\122\036\222\206\036\177\357\347\222
\005\016\131\335\231\101\050\056\056\372\234\200\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\050\054\317\101\000\226\075\112\056\302\226
\230\117\116\12\234\227\267\333\037\222\062\310\377\017\121\156
\326\354\011
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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
# 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 (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\014\010\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\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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After: Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# 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\170\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\013\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\020\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
Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
Not Valid After: Tue Feb 12 17:39:39 2041
Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_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\066\001\11\060\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\140\077\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\104\010\165\164\150\157\162\151\164\171\040\122\123\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\013\060\001\11\060\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\140\077\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\104\010\165\164\150\157\162\151\164\171\040\122\123\101

CKA_VALUE MULTILINE_OCTAL
\060\202\005\135\060\020\003\030\240\003\002\121\01\101\173
\054\232\323\026\120\006\223\1\060\15\060\011\052\206\11\10\206\036
\015\001\10\13\005\006\060\174\061\013\060\01\11\060\003\125\004
\006\020\030\021\125\123\061\016\060\014\006\003\125\004\010\140\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\140\004
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012
\104\101\123\123\114\040\103\157\162\160\157\162\141\164\151\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\104\010\165\164\150\157\162\151\164\171\040\122\123\101

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\174\061\013\066\001\11\060\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\140\077\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\155\040\122\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\104\010\165\164\150\157\162\151\164\171\040\122\123\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\0173\054\233\323\026\200\062\231

CKA_VALUE_MULTILINE_OCTAL
\060\020\030\135\060\020\003\030\240\003\002\121\01\101\173
\054\232\323\026\200\006\223\1\060\15\060\011\052\206\11\10\206\036
\015\001\10\13\005\006\060\174\061\013\060\01\11\060\003\125\004
\006\020\030\021\125\123\061\016\060\014\006\003\125\004\010\140\005
\124\145\170\141\163\061\020\060\016\006\003\125\004\007\140\004
\110\157\165\163\164\157\156\061\030\060\026\006\003\125\004\012
\104\101\123\123\114\040\103\157\162\160\157\162\141\164\151\157
\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157\156
\104\010\165\164\150\157\162\151\164\171\040\122\123\101

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “SSL.com Root Certification Authority RSA”
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS 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_SHA1_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\135\254\254\302\274\245\133\241\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\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:c3:68:5b: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 (SHA256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE 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):

END

CKA_CLASS CK_OBJECT_CLASS 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"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL
# 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:ca: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):
CKA_CLASS CK_OBJECT_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_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END

END
# 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:05:9e
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: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 After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"

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# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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
Certificate "OISTE WISeKey Global Root GC CA"

# Certificate "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# 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):
# Fingerprint (SHA1):
# Certificate "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# 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):
# Fingerprint (SHA1):

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# 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

CKA_CLASS CK_OBJECT_CLASS 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\033\271\061

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\326\271\055\057\223\144\370\245\151\312\221\351\150\007\043

CKA_ISSUER MULTILINE_OCTAL
\060\155\006\011\030\000\003\125\004\006\023\002\103\110\061
\020\060\016\060\003\125\004\012\203\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\150\040\101\157\165\164\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\033\040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
# 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

CKA_CLASS CK_OBJECT_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\010\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\066\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\010\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\066\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\132\132\243\355\135\276\132\145\040\145\003
\220\357
END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\106\060\020\003\056\240\003\002\001\002\002\020\135
\337\261\132\132\243\355\135\276\132\145\040\145\003\220\357\060
\015\006\011\052\206\110\206\367\015\001\101\013\005\000\060\075
\061\013\060\011\006\003\125\004\006\023\002\010\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\013\027\015
\064\060\061\062\063\061\060\060\060\060\060\013\027\015
\013\060\011\006\003\125\004\006\023\002\010\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\020\002\042
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# 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):
# Certificate "UCA Extended Validation Root"

# Issuer: CN=UCA Extended Validation Root, O=UniTrust, C=CN
# 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

# Certificate

/200376/360/304/112/360/134/142/062/237/034/272/170/251/120/370

CKA_ISSUER MULTILINE_OCTAL
\060/075/061/013/060/001/1/006/003/1/25/004/006/023/002/1/03/1/16/061
\021/060/017/006/003/1/25/004/012/014/010/125/1/156/1/15/1/124/162/165
\163/164/060/103/060/003/1/006/003/1/25/004/003/014/022/1/25/010/01
\040/010/174/1/157/1/142/1/141/1/154/0/40/1/07/06/2/040/1/22/1/157/1/157/1/157/1/164

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\020/20/135/337/261/332/132/243/355/1/35/276/1/32/145/0/40/1/45/003
\220/357

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

# Certificate

/200376/360/304/112/360/134/142/062/237/034/272/170/251/120/370

CKA_ISSUER MULTILINE_OCTAL
\060/075/061/013/060/001/1/006/003/1/25/004/006/023/002/1/03/1/16/061
\021/060/017/006/003/1/25/004/012/014/010/125/1/156/1/15/1/124/162/165
\163/164/060/103/060/003/1/006/003/1/25/004/003/014/022/1/25/010/01
\040/010/174/1/157/1/142/1/141/1/154/0/40/1/07/06/2/040/1/22/1/157/1/157/1/157/1/164

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\020/20/135/337/261/332/132/243/355/1/35/276/1/32/145/0/40/1/45/003
\220/357

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\101\066\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\060\104\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
# 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):
CKA_CLASS CK_OBJECT_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\000\003\125\004\006\023\002\0106\122\061
\022\060\020\000\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\013\145\162\164
\151\147\156\141\040\122\157\157\157\164\040\013\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\132\061\013\060\011\006\000\003\125\004\006\023\002\0106\122\061
\022\060\020\000\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\013\145\162\164
\151\147\156\141\040\122\157\157\157\164\040\013\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\212\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\000\021\000 \312\351\033\211\361\125\003\015\243\346\101\155\304 \343\246\341
END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# 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):
# Certificate "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number: 31:f5:e4:62:00:c5:58:ed: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):

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CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL
 CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# 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):

Open Source Used In Crosswork Common EMS Services 4.0.0 4620
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\363\332\274
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\133\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\133\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\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):
CKA_CLASS CK_OBJECT_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\133\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\133\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
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\133\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\133\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
\023\001\377\004\005\060\003\001\001\377\060\012\006\010\052
\206\110\316\075\004\003\003\315\000\060\146\002\061\000\276
\363\141\170\002\023\035\144\225\007\270\030\156\210\020\050\057
\203\010\027\220\12\037\212\114\350\015\033\172\261\255\325\201
\011\107\357\073\254\010\004\174\134\231\126\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\121\123\125\073\373\214\173\353\145\011\303
\370\226\315\073\250\202\362\026\125\167\044\176\022\020\225\004
\054\243
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0eda: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):
CKA_CLASS CK_OBJECT_CLASS 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\153\061\311\060\007\251\150\160\016\22\066\150\157\147\151
\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_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\130\060\100\003\125\004\006\023\020\023\111\116\061
\023\060\021\000\003\125\004\013\023\121\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\015
\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_SERIALNUMBER MULTILINE_OCTAL
\023\012\074\366\007\251\150\160\163\322\213\204
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "emSign Root CA - C1"

# Issuer: CN=eMudhra Inc,OU=eMudhra Inc,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=eMudhra Inc,OU=eMudhra Inc,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"

END

CKA_ID UTF8 "$0"
CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# 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:bac:c4:32: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):
CKA_CLASS CK_OBJECT_CLASS 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\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

# Certificate "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3, O=eMudhra Inc, OU=emSign PKI, C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):

# Fingerprint (SHA1):


CKA_CLASS CK_OBJECT_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 CKO_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

\060\132\061\133\060\011\010\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\140\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\133\060\011\010\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\140\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\126\202\126\270\022\174\234\250
END
CKA_VALUE MULTILINE_OCTAL

\060\202\000\020\053\060\202\001\126\124\000\03\002\001\100\02\002\012\173
\161\126\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\060\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
\040\012\002\031\134\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\060\062\061\070\061\070\063\060
\060\132\027\015\064\040\060\062\061\070\061\070\063\060\060\060
\132\060\132\061\011\060\003\125\004\006\023\002\125\123
\061\123\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
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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\027\023\023\020\027\175\365\357\153\030\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_ISSUE MULTILINE_OCTAL

Open Source Used In Crosswork Common EMS Services 4.0.0  4628
# Certificate "Hongkong Post Root CA 3"

# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042

CKA_CLASS CK_OBJECT_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

END
# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
# 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):
# 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):

CKA_CLASS CK_OBJECT_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"

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
CKA_CLASS CK_OBJECT_CLASS 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\124\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\015\156\164\162\165
\163\164\054\040\111\156\143\056\061\105\060\046\060\003\125\004
\013\023\037\123\145\145\040\167\167\167\167\156\145\156\164\162\165


# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"

# Certificate "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After: Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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\230\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\230\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\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\230\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\230\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\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\020\005\250\060\022\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\101\206\367\015\001\001\014\005\000\060\145
\061\103\060\111\006\003\125\004\000\060\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

END

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042

END
CKA_CLASS CK_OBJECT_CLASS 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\012\023\025\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\116\256\115\164
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:97:59:0a
# 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):

CKA_CLASS CK_OBJECT_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

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017, OID.2.5.4.97=VATHU-23584497, O=Microsec Ltd., L=Budapest, C=HU
# Serial Number: 01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042

CKA_CLASS CK_OBJECT_CLASS 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

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL

END
# 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

CKA_CLASS CK_OBJECT_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\010\010\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\060\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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\010\010\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\060\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\020\005\107\060\020\003\057\240\003\02\001\002\002\011\021
\000\064\266\116\306\066\055\066\060\015\006\011\052\206\110\026
\367\015\001\013\005\000\060\010\061\013\060\011\006\003\125
# 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):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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
# 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

CKA_CLASS CK_OBJECT_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\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\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
# 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
CKA_CLASS CK_OBJECT_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\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\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
BEGIN
\127\266\231\313\234\242\013\171\220\327\127\022\121\065\031\210\010
\150\045\324\067\027\204\025\373\001\162\233\344\225\336\121\022\046\040
\230\046\342\166\365\047\157\372\000\073\112\141\331\015\313\121
\223\052\375\026\060\026\247\043\232\034\110\376\121\275\266\034
\260\261\124\316\336\154\101\255\026\147\176\333\375\070\315\271
\070\161\262\031\110\313\235\027\337\130\236\172\142\262\204\062\17
\164\225\233\344\133\035\322\207\173\333\233\014\123\131\271\043\323
\061\124\246\577\070\335\170\040\117\351\130\126\072\147\370\332
\366\231\233\135\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\235\100\277\064\261\234\217\116\341\136\222\117\037\216\036
\236\227\336\363\246\171\152\211\161\117\113\047\027\110\376\034
\364\120\017\171\111\175\314\105\343\127\51\12\100\305\101\334\141
\126\047\006\151\345\162\101\201\132\266\001\211\240\057\072\162
\171\137\072\060\027\101\135\430\142\076\221\113\307\333\106\116
\102\371\136\70\143\354\046\214\163\101\175\032\035\352\250\174
\207\250\302\047\174\341\063\010\173\171\173\374\000\240\042\200
\236\112\247\157\000\260\101\105\267\042\312\150\110\035\022\42
\256\335\035\362\340\156\116\005\130\261\130\220\026\052\244\075
\020\100\276\217\142\143\023\251\212\244\202\175\055\002\351\203\060
\174\131\047\311\137\50\361\060\000\260\056\323\041\057\216\063\026
\154\230\355\020\250\000\073\262\142\223\171\333\332\151\034\344\312
\311\340\266\234\351\316\161\161\161\336\154\077\026\244\171
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTCK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTCK_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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\113\207\245\052\232\320\151
\225\046\177\265
END
The provided content contains a certificate with various fields and properties. Here is a structured representation of the certificate text:

```
# 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
```

This certificate is a Trustwave Global ECC P256 Certification Authority and is issued by Trustwave Holdings, Inc. in Chicago, Illinois, USA. It is valid from August 23, 2017, to August 23, 2042, and has the following fingerprints:


The certificate includes various properties and flags, such as:

- **Class:** CK_OBJECT_CLASS CKO_CERTIFICATE
- **Token:** CK_BBOOL CK_TRUE
- **Private:** CK_BBOOL CK_FALSE
- **Modifiable:** CK_BBOOL CK_FALSE
- **Label:** UTF8 "Trustwave Global ECC P256 Certification Authority"
- **Certificate Type:** CK_CERTIFICATE_TYPE CKC_X_509

The certificate includes the subject and issuer details, which are:

**Subject:** CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US

**Issuer:** CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US

```
```
\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\031\034
\063\222\061\130\034\375\011\072\246\077\255\243\103\060\010\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\031\004\026\004\024\243\101\006\254\220
\155\321\112\125\331\165\245\112\020\231\263\261\241\123\112\367\060
\012\006\010\052\206\110\316\075\004\003\002\003\010\000\060\104
\002\040\007\346\124\322\016\240\112\262\225\021\237\207\305\266
\377\151\336\045\276\370\240\267\010\363\014\316\052\337\010\041
\014\067\002\040\055\046\000\032\040\052\275\153\321\366\134\370\145
\314\026\155\263\234\064\110\143\204\011\130\215\167\032\342\314
\234\341\164\173
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global ECC P256 Certification Authority"
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Serial Number:0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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\235\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\060\206\046\350\015\005\322\131\247\203\124
END

CKA_ISSUER MULTILINE_OCTAL
\060\021\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
# 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
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
"003002306112416216511631164116711411661145010711541157
142114115404010511031103040120062065066004010311451162
1641151114611411143114111641151115711560401011165116411501157
1162115111641171"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
"0020140151152113701007705011340176112112253371135"
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0 4656
# 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
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid After : Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
{...}
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
{...}
END
CKA_ISSUER MULTILINE_OCTAL
{...}
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0  4658
# Certificate "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# 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

CKA_CLASS CK_OBJECT_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\060\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\101\045\151\121\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\060\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\101\045\151\121\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\014\010\275\205\227\154\231\047\244\200\150\107\073

END
# Trust for "NAVER Global Root Certification Authority"
# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\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\154\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\035\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
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q282604J,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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
# Certificate "GlobalSign Secure Mail Root R45"

# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# 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):
cka_class CK_OBJECT_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\020\014\036\003\031\036\035\023\022\033\003\031\022\030\027\006\003\130\014\033\010\033\035\023\025\023\025\022\035\023\023\022\023\022\030\031\021\021\030\027\006\003\031\036\035\023\022\033\003\031\022\030\027\006\003\130\014\033\010\033\035\023\025\023\025\022\035\023\023\022\023\022\030\031\021\021\030\027\006\003\031\036\035\023\022\033\003\031\022\030\027\006\003\130\014\033\010\033\035\023\025\023\025\022\035\023\023\022\023\022\030\031\021\021\030\027\006\003\031\036\035\023\022\033\003\031\022\030\027\006\003\130\014\033\010\033\035\023\025\023\025\022\035\023\023\022\023\022\030\031\021\021\030\027\006\003\031\036\035
# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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
\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\200\060\011\260\140\252
\237\116\334\111\076\036\072\233\142\223\063\260\072\124\164\157
\054\061\105\211\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\033\201
\032\105\215\236\257\233\334\200\030\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\334\125\060\236\337\016\101\274\340\021\136\241
\014\250\042\341\343\000\243\116\160\174\222\343\004\321\172\210
\121\165\220\13\134\233\332\114\242\144\275\163\171\123\157\362
\263\301\366

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
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
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “GlobalSign Secure Mail Root E45”
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "GlobalSign Root R46"

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

CKA_CLASS CK_OBJECT_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\106\050\060\046\006\003
\125\004\003\023\307\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\010\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_ISSUER MULTILINE_OCTAL
\060\122\061\13\060\011\100\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\106\050\060\046\006\003
\125\004\003\023\307\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\010\064\065
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
# Trust for "GlobalSign Root R46"

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

## Serial Number:

## Not Valid Before:
Wed Mar 20 00:00:00 2019

## Not Valid After:
Tue Mar 20 00:00:00 2046

## Fingerprint (SHA-256):

## Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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


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):


CKA_CLASS CK_OBJECT_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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

\154\157\142\141\154\123\151\147\156\040\156\166\055\163\141\106\154\140\032\006\003\125\004\105\064\066\060\166\060\020\100\067\052\206\110\316\107\032\001\006\055\053\201\004\000\042\000\142\000\004\234\016\261\131\172\263\350\236\122\167\165\064\372\245\106\247\255\062\203\116\264\007\251\047\312\224\273\014\322\012\200\073\222\111\260\027\014\160\023\011\001\121\163\330\352\107\352\276\262\200\053\315\347\243\102\060\100\060\100\060\100\060\003\125\035\017\001\001\377\004\004\003\003\202\012\006\000\17\006\003\125\035\023\001\001\377\004\004\005\060\003\001\001\137\076\003\035\006\003\125\035\016\004\026\004\024\061\010\122\020\172\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\223\213\276\263\236\054\236\013\221\124\237\112\024\261\366\144\247\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\130\225\114\252\253\035\013\061\137\073\034\342\000\227\104\061\346\376\163\226\067\53\322\263\323\376\010\263\064\211\274\005\237\367\036\206\356\213\160\END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE  
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE  
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE  

# Trust for "GlobalSign Root E46"  
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE  
# 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):  

CKA_CLASS CK_OBJECT_CLASS 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
# 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):

CKA_CLASS CK_OBJECT_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_SUBJECT MULTILINE_OCTAL
0601060101010060011006003112500400600230021021050061
031060027006000311250040120230200107115411571421411154
123115114711560401156116605511631141061034060032006003
12500400302302310711541157142141115412311511471156040
11221157115711490401150064066
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002022020213222732720631156032427434604411500305015204
0351230350103
END

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

CKA_ISSUER MULTILINE_OCTAL
0601060101030600110060003112500400600230021021050061
031060027006000311250040120230200107115411571421411154
123115114711560401156116605511631141061034060032006003
12500400302302310711541157142141115412311511471156040
11221157115711490401150064066
END
# Trust for "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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\130\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\151\156\151\164\157\162\151\156\147\040
\107\155\142\110\061\031\060\027\006\003\125\004\003\023\020\017
\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\121\33\372\145\345
END

# 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):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PUBLIC CK_BBOOL CK_FALSE
CKA_PRIVATE CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\024\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\013\023\011\106\010\040\013\011\040\122
\141\151\172\061\042\060\004\006\003\125\004\003\023\031\101\116
\106\040\123\145\141\163\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\020\025\037\060\020\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\030\005\000\060\021\020\046\010\222\020\020\006\003\125
\004\005\023\011\07\066\063\027\007\067\065\061\060\061\101\030\060
\011\006\003\125\004\006\023\002\105\123\061\014\07\060\045\006\003
\125\004\001\120\023\036\101\116\010\040\101\116\164\157\162\151\144\141\143\141\143\141\143\141\143
\141\151\172\061\042\060\040\006\003\125\004\003\023\031\101\116
\106\040\123\145\141\163\165\162\145\040\123\145\162\166\145\162\040
\122\157\157\157\164\040\103\101

END
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4682
# Not Valid After: Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "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_SHA1_HASH MULTILINE_OCTAL
\046\246\104\134\333\257\116\057\262\035\266\145\260\116\350\226
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\021\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\066\104\060\045\006\003\125\004\012\023\036\101
\116\106\040\111\165\176\112\151\144\114\114\040\114\154\040
\103\145\162\164\151\146\151\143\141\143\151\157\156\061\124\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\137\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
# 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):
CKA_CLASS CK_OBJECT_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\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\011\163\163\145\143\157
\040\041\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\060\014\060\045\006\003\125\004\013\023\036\013\045\162
\164\165\155\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\151\015\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\010\145\162\164\165\155\040\105\013\055
\063\070\064\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\003\125\004\006\023\002\120\114\061
\041\060\037\006\003\125\004\012\023\030\011\163\163\145\143\157
\040\041\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\060\014\060\045\006\003\125\004\013\023\036\013\045\162
\164\165\155\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\015\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\010\145\162\164\165\155\040\105\013\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\020\020\013\53\240\003\002\001\002\002\020\170
\121\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\103\060
\011\006\003\125\004\006\023\002\120\114\061\010\060\003\076
\125\004\012\023\030\101\163\163\145\143\157
\140\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\010\145\162\164\165\155\040\105\013\055
\063\070\064\040\103\101
END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum EC-384 CA"
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon 26 Mar 2018 07:24:54
# Not Valid After : Thu Mar 26 07:24:54 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\076\170\074\254\337\364\2423\146\245\1471\251\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\016\061\013\060\011\006\003\013\025\004\006\023\002\012\011\040\061
\041\060\037\006\003\013\025\004\012\023\030\010\016\013\016\014\015\013\017
\040\010\014\011\014\010\012\013\017\011\016\016\014\015\015\015\013\040\012\035\056
\101\050\061\014\070\060\045\000\003\012\050\004\013\023\061\013\014\015\016\02
\016\016\015\014\010\013\014\015\014\016\011\015\013\014\016\015\011\015\017
\015\060\040\011\016\015\014\014\015\017\016\012\015\016\014\017\016\010\031\0\060\027\000
\003\012\050\004\000\030\023\002\010\013\014\015\016\012\016\014\015\015\040\010\05\013\055
\063\070\064\040\013\010
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
# 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):

CKA_CLASS CK_OBJECT_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\016\061\013\060\011\006\003\013\025\004\006\023\002\012\011\040\061
\041\060\037\006\003\013\025\004\012\023\030\010\016\013\016\014\015\013\017
\040\010\014\011\014\010\012\013\017\011\016\016\014\015\015\015\013\040\012\035\056
\101\050\061\014\070\060\045\000\003\012\050\004\013\023\061\013\014\015\016\02
\016\016\015\014\010\013\014\015\014\016\011\015\013\014\016\015\011\015\017
\015\060\040\011\016\015\014\014\015\017\016\012\015\016\014\017\016\010\031\0\060\027\000
\003\012\050\004\000\030\023\002\010\013\014\015\016\012\016\014\015\015\040\010\05\013\055
\063\070\064\040\013\006\001\011\006\003\013\025\004\006\023\002\012\011\040\061
Open Source Used In Crosswork Common EMS Services 4.0.0

# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After: Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
Certificate "TunTrust Root CA"

Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
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):
Fingerprint (SHA1):

END

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# Trust for “TunTrust Root CA”
# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\205\023\271\220\013\060\013\064\266\136\270\132\370\061\127\264

CKA_ISSUER MULTIILINE_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\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

CKA_SERIAL_NUMBER MULTIILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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
# 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):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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\001\100\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\104\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\001\100\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\104\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\000\003\002\000\102\002\020\071
\312\223\034\357\103\363\306\216\223\307\364\144\211\070\176\060
\015\006\011\052\026\011\020\067\150\001\001\130\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\011\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
\157\156\163\040\103\101\061\044\060\042\006\003\125\004\003\014
\033\110\101\122\111\110\303\101\040\124\114\123\040\122\123\101\040
\122\157\157\164\040\103\101\040\062\060\062\061\060\003\027\015
\062\061\060\062\061\071\061\060\065\065\063\070\132\027\015\064
\065\060\062\061\063\001\060\060\065\065\063\067\132\060\154\061\103
\060\011\060\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
END

# 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
# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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
# 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):

CKA_CLASS CK_OBJECT_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
00200200010100000306082A86480186050201000405107122061
007006060500003125004006023002107122061
151143040401010143141144145155151143040141156144040
122145163145141162143150040111156163164151164165
16415115715616304010310104404600420060003125004
003014033110101122111103101040062060062061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002002000101222303433710333633062162223307364144211
0701176
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\147\000\060\144\002\060\021\336\256\370\033\411\16\210\260\251\360 \
04\22\255\302\21\110\035\371\140\161\105\356\217\002\304\135\003\160 \
11\11\24\222\352\305\02\210\160\246\323\015\260\252\312\054\100 \
\134\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\112\236\265\043\050\015 \
\237\024\266\074\123\242\14\006\151\175\372\154\221\306\052\111 \
10\53\34\35\267\023\34\1\072\154 

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"


# Certificate "HARICA Client RSA Root CA 2021"

# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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):

CKA_CLASS CK_OBJECT_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\101\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\011\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\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\013\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\101\13\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\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\013\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\125\122\370\036\333\033\044\054\236\273\226\030\315\000\125
\050\076
END

CKA_VALUE MULTILINE_OCTAL
\060\202\200\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
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Certificate "HARICA Client RSA Root CA 2021"

# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

END

# Certificate "HARICA Client ECC Root CA 2021"

# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# 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):

CKA_CLASS CK_OBJECT_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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END

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# 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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
END

CKA_ISSUER MULTILINE_OCTAL
\060\157\061\101\13\060\011\006\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\014\056\011\145\154\154\156
\151\143\040\011\143\141\144\145\015\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\011\122\111\103\101\040\103\154\151\145\156\164
\040\015\013\03\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):

CKA_CLASS CK_OBJECT_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\13\060\011\106\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\006\140\151\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\156\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\106\003\125\004\006\023\002\105\123\061
# 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):
# Fingerprint (SHA1):

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END

END
# Certificate "vTrus ECC Root CA"

# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# 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):

# Certificate "vTrus ECC Root CA"

# Subject: "CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN"
# 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):
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.".,C=CN
# 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):
CKA_CLASS CK_OBJECT_CLASS 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"
Open Source Used In Crosswork Common EMS Services 4.0.0  4713

[36\x234\x333\x260\x374\x366\x002\x023\x266\x122\x062\x246\x243\x221\x077\x026 \x160\x332\x303\x341
END

# Certificate "vTrus Root CA"

# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# 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):

CKA_CLASS CK_OBJECT_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
"0601\x030601\x030600\x0101\x006000\x031250040\x023\x002\x103\x116061
0340\x0600\x320600\x031250040\x023\x002\x103\x124162165\x163103
1501\x1501\x1561\x141\x40\x103\x157\x560541144164144056061\x026060
0240\x0600\x320600\x031250040\x023\x002\x105\x166124162165\x163040\x122157
1571\x1640\x40\x103\x101
END

CKA_ID UTF8 "0"
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CKA_ISSUER MULTILINE_OCTAL
\060\013\060\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
\137\157\274\005\215\010
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
\060\015\006\011\052\206\110\206\367\015\001\001\005\000\003
\202\002\017\000\060\202\002\012\002\202\002\001\000\275\125\174
\141\132\270\035\004\142\005\240\025\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\010\222\356\063\262\043\131\131\121\274\130\332\213
\123\132\030\136\205\131\036\214\143\132\272\237\243\013\260\263
\122\134\217\220\127\002\235\104\273\171\156\154\200\207\051\024
\003\054\150\144\232\310\144\203\265\152\254\023\054\063\161\227
\133\045\141\074\032\027\160\125\233\255\000\122\177\137\004\271
\176\066\332\234\300\026\256\142\237\266\114\103\176\125\204\276
\230\136\032\132\155\030\257\160\146\225\153\052\260\224\167\205\136
\004\017\142\035\143\165\367\115\334\273\131\133\232\160\035\076\147
\005\360\376\007\010\200\317\050\333\005\036\024\047\057\206\175
\036\047\336\373\346\176\063\110\347\013\036\130\321\047\053\123
\101\161\127\112\145\327\373\032\120\140\374\114\274\065\123\001\152
\127\162\162\020\257\036\103\156\035\023\345\265\136\302\154\307\107
\176\112\224\025\046\115\073\272\353\114\350\260\011\330\214\153\130
\235\235\011\123\116\265\022\005\124\365\006\240\376\066\005\176
\136\120\262\153\030\026\371\144\352\013\021\123\010\154\250\135
\147\311\132\047\347\026\271\125\202\042\220\040\075\052\350\174\220
\357\274\117\375\342\012\040\247\336\145\004\244\135\035\230\016
\060\323\167\120\370\015\004\233\224\066\001\163\312\006\130\246

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# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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 CKC_X_509
CKA_SUBJECT UTF8 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\030\141\111\123\122\107\040\122\157\157\164\040\130
\062
END

CKA_ID UTF8 "0"

CKA_ISSUER UTF8 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\030\141\111\123\122\107\040\122\157\157\164\040\130
\062
END

CKA_SERIAL_NUMBER UTF8 MULTILINE_OCTAL
\002\020\010\132\223\35\321\162\352\356\247\200\030\105\154\351\057
\207\122
END

CKA_VALUE UTF8 MULTILINE_OCTAL
\060\020\002\033\060\022\001\241\240\003\002\001\002\002\020\010
\322\235\322\162\352\356\247\200\301\054\154\351\057\207\122\060
\012\006\010\052\020\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\150\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\003\063\027\015
\062\060\060\071\060\046\060\060\060\060\060\060\132\027\015\064
\060\060\071\061\067\061\066\060\060\060\060\060\132\060\117\061\013
\060\001\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\156\145\164\040\123
\145\143\165\162\151\164\171\040\122\145\163\145\141\162\143\150
\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\003\063\027\015
\062\060\060\071\060\046\060\060\060\060\060\060\132\027\015\064
\060\060\071\061\067\061\066\060\060\060\060\132\060\117\061\013
\060\001\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\156\145\164\040\123
# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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_CLASS CBBOOL CK_TRUE
CKA_ISSUER 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_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
Certificate "HiPKI Root CA - G1"

Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.".C=TW
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):

# CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020201013222353211623523562472003010541154351507
207j122
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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
# 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):

CKA_CLASS CK_OBJECT_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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END
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
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\171\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\004\012\014\032\013\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\161\142\227\224\241\110\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
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After: Tue Jan 19 03:14:07 2038

# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_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"

END CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\120\061\044\060\042\006\000\031\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\010\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\016\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151

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\202\002\015\000
\003\345\176\365\077\223\375\245\011\041\262\246\000\012\006\010
\05\220\011\013\016\075\004\000\030\002\060\120\061\044\004\000\023
\125\004\013\023\033\107\154\157\142\141\154\123\151\147\156\040
\10\5\010\103\040\022\157\157\164\040\010\101\040\055\040\022\064
\016\203\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\150\061\062
\016\061\060\063\060\060\060\060\060\060\060\012\027\015\063\070\060
\061\061\071\060\063\060\064\060\067\132\060\120\061\044\060\042
\006\060\033\125\004\013\023\033\107\154\157\142\141\154\123\151\147
\156\040\105\103\103\040\022\157\157\164\040\010\103\010\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\013\060\023
\006\007\052\206\103\316\075\002\001\006\010\052\206\110\03\160\075
\003\001\007\003\102\000\004\270\036\171\132\217\154\045\016\237
# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

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# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# 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

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

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# 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

# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,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 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
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\143\143\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"
#
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# Certificate "GTS Root R4"
#
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# 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
CKA_CLASS CK_OBJECT_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\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\003\117\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\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\003\117\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\022\001\216\24\003\002\001\002\002\015\002
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# 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
CKA_CLASS CK_OBJECT_CLASS 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\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
# 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):
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
# Trust for “Telia Root CA v2”
# Issuer: CN=Telia Root CA v2, O=Telia Finland Oyj, C=FI
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\217\315\321\163\120\212\304\107\005\010\234\214\210\373\276
\240\053\100\015

CKA_CERT_MD5_HASH MULTILINE_OCTAL
016\217\254\252\202\337\205\261\364\334\020\034\374\231\331\110

CKA_ISSUER MULTILINE_OCTAL
060\040\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002\017\001\147\137\047\326\376\172\343\344\254\276\011\133\005
\236

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
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):

CKA_CLASS CK_OBJECT_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

END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL
```bash
055|124|162|165|163|164|40|40|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|40|40|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|004|203|014|200|000|004|036|313|307|050|321|373|204|365|232
357|102|204|040|034|110|315|156|165|255|374|003|003|204|324|166
223|045|327|110|012|071|145|153|036|346|064|052|273|164|366|022
316|350|155|347|253|344|047|111|060|104|010|123|151|026|161|131
27|27|22|31|36|24|32|37|04|120|124|122|220|205|203|170|224|147
147|243|034|011|031|075|165|064|205|336|355|140|175|307|014|624
10|1|12|2|27|11|156|345|356|102|243|202|001|015|060|202|010|11|060
107|006|003|125|035|023|001|001|377|004|005|060|003|000|100|137|377
060|035|006|003|125|035|023|004|026|004|024|163|221|020|253|377
27|5|26|3|13|2|17|0|11|045|325|262|27|20|102|40|153|253|037|155|060
10|16|006|003|125|035|017|001|001|377|004|004|003|000|200|100|060|060
20|13|006|006|003|125|035|037|004|012|27|60|060|201|273|060|076|240
01|40|0|07|1|64|1|64|1|64|1|64|1|64|1|64|1|64|1|154|056
14|40|55|1|64|1|64|1|64|1|64|1|64|1|64|1|64|1|154|057
14|4|1|1|1|37|0|61|3|06|0|60|0|60|0|60|0|61|1|154|060|171|240
16|7|2|40|1|65|1|65|1|65|1|14|1|14|1|16|0|72|0|57|0|57|1|154|1|162|145
14|3|1|64|1|57|1|62|1|17|0|56|1|44|0|55|1|64|1|64|1|63|1|64|1|56|1|154|1|162|145
16|4|0|7|1|31|6|07|5|10|4|0|55|1|24|1|12|2|51|1|24|0|05|6|20|0|100|10
12|2|0|4|0|6|2|0|6|0|12|2|15|7|15|7|164|0|54|6|20|6|0|103|1|01|0|45|6|20|0|60
06|1|0|4|5|6|20|6|0|6|2|0|6|0|6|0|54|1|17|0|75|1|04|0|55|1|24|1|62|165
16|3|1|4|0|0|4|5|6|20|6|0|10|7|15|5|142|1|10|5|4|1|03|7|5|104|1|05|7|7|143
14|5|1|6|2|1|6|4|1|1|1|4|6|1|1|4|1|1|6|4|1|6|5|6|1|157|1|143|1|14
16|4|1|5|1|1|5|1|5|1|1|6|4|0|6|0|1|2|0|0|6|0|1|0|0|5|2|0|6|1|10|3|16
07|5|0|0|4|3|0|3|0|3|0|1|1|0|0|0|6|0|1|4|6|0|0|2|0|6|0|2|2|4|2|2|2|0|55|23
32|7|2|4|1|14|3|3|7|1|14|1|14|3|3|5|0|255|205|170|124|22|12|3|27|0|223|3|07|0
7|6|1|0|2|1|3|2|1|0|0|2|6|1|23|1|02|10|3|12|0|57|1|21|6|3|1|07|6|20|1|12
3|0|2|5|2|3|3|0|3|5|0|3|0|4|2|6|0|2|5|6|3|6|4|0|7|6|3|2|0|4|6|0|0|2|6|1|00|3|63
0|5|0|5|3|2|3|0|6|3|3|5|5|2|3|1|3|3|7|2|6|7|1|2|7|0|0|4|4|2|3|4|2|4|2|2|1|72|0|3|2
0|7|7|3|4|0|6|6|2|4|0|0|3|1|2|7|0|3|2|1|2|0|6|0|3|1|3|2|0|3|0|7|3|2|6|2|0|2|4|2|1|3|2
1|6|5|1|4|3|3|0|2|2|2|5|2|3|4|0|3|7|0|0|1|3|1|7|3|3|3|3|2|5|1|6|2|4|7|0|1|70|73
END

cKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
cKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
cKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST BR Root CA 1 2020"
# Issuer: CN=D-TRUST BR Root CA 1 2020,O=D-Trust GmbH,C=DE
# 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):

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# Fingerprint (SHA256):

CKA_CLASS CK_OBJECT_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\041\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\11\217\053\204\327\337\352\017\31\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:ff:d0
# Subject: CN=D-TRUST EV Root CA 1 2020, O=D-Trust GmbH, C=DE
# Not Valid Before: Tue Feb 11 10:00:00 2020
# Not Valid After: Sun Feb 11 09:59:59 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_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"

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# Trust for "D-TRUST EV Root CA 1 2020"
# Issuer: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Subject: CN=D-TRUST EV Root CA 1 2020,O=D-Trust GmbH,C=DE
# Not Valid Before: Tue Feb 11 10:00:00 2020
# Not Valid After : Sun Feb 11 09:59:59 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS 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\335\131\060\300\156
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\103\060\011\006\003\125\004\006\023\002\104\015\061 \025\060\023\006\003\125\004\012\023\014\014\005\124\162\165\163 \164\040\107\155\142\110\061\042\020\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
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 ECC P384 Root G5"
#
# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# 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):

CKA_CLASS CK_OBJECT_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\000\031\060\202\000\01\237\240\003\002\001\002\002\020\011
END

# 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

CKA_NSS_MOZILLA_CA_POLICY  CK_BBOOL  CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER  CK_BBOOL  CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER  CK_BBOOL  CK_FALSE

# Trust for "DigiCert TLS ECC P384 Root G5"
# Issuer: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:09:e0:93:65:ac:f7:d9:c8:b9:3e:1c:0b:04:2a:2e:f3
# Subject: CN=DigiCert TLS ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Not Valid Before: Fri Jan 15 00:00:00 2021
# Not Valid After : Sun Jan 14 23:59:59 2046

CKA_NSS_MOZILLA_CA_POLICY  CK_BBOOL  CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER  CK_BBOOL  CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER  CK_BBOOL  CK_FALSE
# Certificate "DigiCert TLS RSA4096 Root G5"

# Issuer: CN=DigiCert TLS RSA4096 Root G5,O="DigiCert, Inc.",C=US
# 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):

CKA_CLASS CK_OBJECT_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
"DigiCert TLS RSA4096 Root G5"
CKA_NSS_MOZILLA_CA_POLICY 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
# 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):


CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL

END

END

END

END

END

END

END

END

END

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END

END

END

END

END

END
# 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:3a:3b:6a:3d:6ef
# 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):

CKA_CLASS CK_OBJECT_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_SUBJET MULTILINE_OCTAL
\060\120\061\130\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\115\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\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\130\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\115\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\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\0243
\326\357
END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\034\060\020\001\243\240\003\002\001\100\002\000\002
\077\156\240\006\001\162\175\355\077\303\243\266\0243\326\357060
\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\101\120\031\104\151\147\151\103\145\162\164\054\040\111
\156\143\056\050\060\046\006\003\125\004\003\023\037\104\151
\147\151\03\145\162\164\040\123\115\111\115\105\040\105\103\040\120\063\070\064\040\122\157\157\164\040
\107\065
END

Open Source Used In Crosswork Common EMS Services 4.0.0 4751
\015\062\061\060\061\132\027\015
\064\066\060\061\067\065\067\061\066\062\063\065\071\065\071\132\060\120\061
\013\060\011\010\066\033\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\035\060\105\050\060\046\060\033\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\060\007\052\206\110\316\075\020\001\010\060\053\201
\004\000\042\001\323\016\104\151\147\151\103\145\162\164\054
\100\100\033\062\040\012\070\030\063\046\145\010\72\110\362\023\125\277\315
\124\056\010\140\177\255\177\350\141\122\051\317\011\107\136\013
\034\300\037\244\277\362\133\274\230\035\237\231\114\314\160\153\266
\272\332\050\035\237\277\260\004\243\102\060\010\006\003\065\060\031\215
\035\016\004\026\004\024\163\172\153\226\033\010\200\72\121\146
\302\144\062\027\376\343\041\47\220\056\255\060\16\006\003\125\035
\197\010\001\377\004\004\000\003\002\001\020\060\010\176\006\003\125\035
\023\000\100\137\377\004\005\060\003\001\001\377\006\012\006\010\052
\206\010\316\075\004\003\003\003\147\000\060\144\002\060\067\104
\365\062\003\041\161\153\364\145\53\174\314\221\232\303\156\161
\330\322\043\135\222\115\202\102\155\134\141\225\360\221\365\247
\10\036\66\152\227\351\123\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\325\101\070\311\122\110\221\326
\016\373\274\140\060\174\144\077\220\036\105\177\121\076\364\246
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert SMIME ECC P384 Root G5"
# Issuer: CN=DigiCert SMIME ECC P384 Root G5,O="DigiCert, Inc.",C=US
# Serial Number:05:3f:6e:a0:06:01:72:7d:6f:04:23:10:20:60:10:00:60:03:00:01:25:03
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\100\124\020\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\066\011\130\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\014\151\147\151\103\145
\162\164\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\040\120\063\107\006\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
# 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):

CKA_CLASS CK_OBJECT_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\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\027\060\025\006\003\125\004\012\023\016\014\151\147\151\103\145
\162\164\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\122\123\101\064\060\071\066\040\122\157\157\164\040\107
\065
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
Open Source Used in Crosswork Common EMS Services 4.0.0  4755
# Trust for "DigiCert SMIME RSA4096 Root G5"
# Issuer: CN=DigiCert SMIME RSA4096 Root G5,O="DigiCert, Inc.",C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\203\106\313\175\134\271\133\272

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\321\173\340\265\077\065\162\237\175\276\013\245\244\035\251\156

CKA_ISSUER MULTILINE_OCTAL
\060\117\061\130\060\011\006\003\125\004\006\023\002\125\123\061\027\060\025\006\003\125\004\012\023\016\010\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\366\272\004\043\203\106\131\175\134\346\271\133\272

END

# Certificate "Certainly Root R1"
# Issuer: CN=Certainly Root R1,O=Certainly,C=US
# 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):

CKA_CLASS  CK_OBJECT_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\001\000\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\010\015\023\002\125\162\014\115\15
\156\14\171\061\032\060\030\006\003\125\004\003\023\021\010\015
\162\164\141\151\156\154\171\040\022\157\157\164\040\012\061
END
CKA_ID UTF8 "0"
CKA_ISSUER  MULTILINE_OCTAL
\060\075\061\013\060\001\000\003\125\004\006\023\002\125\123\061
\022\060\020\006\003\125\004\012\023\011\010\015\023\002\125\162\014\115\15
\156\14\171\061\032\060\030\006\003\125\004\003\023\021\010\015
\162\164\141\151\156\154\171\040\022\157\157\164\040\012\061
END
CKA_SERIAL_NUMBER  MULTILINE_OCTAL
\002\021\000\216\017\371\113\220\161\150\045\063\124\364\324\104
\071\267\340
END
CKA_VALUE  MULTILINE_OCTAL
\060\020\002\03\057\240\003\002\001\002\002\202\017\000\022\061\060\015\060\006\011\052\206\110\026\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\010\015\162\164\141\151\156
\154\171\061\032\060\030\006\003\125\004\003\023\021\010\015\162
\164\141\151\156\154\171\040\022\157\157\164\040\012\061
\027\015\062\061\060\064\060\061\060\060\060\060\060\061\32\027
\015\064\060\064\060\060\061\060\060\060\060\061\32\060\075
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\020\006\003\125\004\012\023\011\010\015\162\164\141\151\156\154
\171\061\032\060\030\006\003\125\004\003\023\021\010\015\162\164
\141\151\156\154\171\040\022\157\157\164\040\012\061\060\020\002
\042\060\015\006\011\052\061\110\026\367\015\001\001\001\005\000
\003\020\002\017\000\060\020\020\012\060\202\000\010\000\32\0066
\255\026\356\342\042\005\353\320\362\267\150\002\22\327\132
\212\101\032\306\222\245\132\307\143\105\115\177\277\341\072\167\042
\057\134\277\106\357\11\320\003\205\023\101\137\312\123\336\123\267\142
\265\246\065\004\302\107\377\231\175\204\337\134\316\351\136\200
\050\101\362\175\347\036\220\300\117\166\076\202\074\015\374\245
\003\372\173\023\333\11\050\361\140\304\216\371\137\34\053\311\117
\225\305\052\377\252\211\337\202\061\017\162\377\014\047\327\012
\036\126\000\120\306\014\220\301\12\265\330\024\205\273\247\015
\026\301\370\007\044\033\272\205\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\03\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\113\342\323\156\035\365\063\126\213\247\231\322\362
\310\054\063\223\222\206\037\162\214\145\063\020\144\027\375\044
\027\226\321\125\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\205\313\336\220\136\277\033\204\146\352\302\046\272
\071\137\212\231\251\011\031\007\260\054\257
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certainly Root R1"
# Issuer: CN=Certainly Root R1,O=Certainly,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
# Certificate "Certainly Root E1"
#
# Issuer: CN=Certainly Root E1,O=Certainly,C=US
# 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):

# CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\000\000\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\161\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\021\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

# CKA_CLASS CK_OBJECT_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\000\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\161\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\000\000\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\161\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\177
\314\370
[END]

CKA_VALUE MULTILINE_OCTAL
\060\202\001\367\060\202\001\175\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\004\003\023\021\103\145\162\164\141\151\156
\154\171\040\122\157\157\164\040\105\060\036\027\015\062\061
\060\064\060\061\060\060\060\060\060\060\063\027\015\064\066\060
\064\060\061\060\060\060\060\060\063\026\012
\060\003\012\155\004\004\006\023\002\025\123\061\022\060\020\006\003
\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\104\122\157\157\164\040\105\060\061\066\060\020\006\007\052
\206\110\316\075\000\000\010\006\005\053\201\004\000\000\042\003\142\000
\004\336\157\370\177\034\337\355\371\107\030\062\026\124\000\021
\370\072\027\220\035\212\173\310\112\136\052\175\210\150\247\011\042
\024\221\044\172\134\236\243\027\175\212\026\041\064\030\120\033
\020\336\320\067\113\046\307\031\140\020\035\006\042\275\140\031\066
\100\326\051\207\011\074\221\172\336\024\033\335\131\116\004
\136\317\310\002\034\030\123\010\061\333\330\320\040\351\110\021\153\344
\116\243\102\060\010\060\060\016\060\003\125\035\017\001\000\137\770\004
\004\003\002\001\006\060\017\000\060\032\125\035\023\001\001\137\770
\000\560\060\030\003\001\001\177\060\035\000\063\125\035\016\004\026\000
\024\363\050\030\313\144\165\356\051\052\353\355\256\043\130\070
\205\353\310\142\007\060\012\006\010\052\206\110\316\075\004\000
\003\300\115\000\000\060\145\000\026\061\000\026\126\113\042\030\326\2031
\142\15\336\260\117\337\156\322\160\212\361\123\176\152\214\346
\272\336\203\151\131\215\126\251\005\265\226\222\027\027\030\322
\352\320\173\316\330\010\133\174\256\002\060\106\336\352\313\135
\123\354\062\032\145\026\260\114\060\134\060\036\332\116\163\206
\006\330\316\121\004\110\067\067\370\335\063\121\235\160\257\173
\125\330\001\056\175\005\144\016\206\270\221

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certainly Root E1"
# Issuer: CN=Certainly Root E1,O=Certainly,C=US
# 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):
# 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
# 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

CKA_CLASS CK_OBJECT_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
\021\236\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
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# 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
# 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

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Global Root CA RSA v3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\042/276/020/366/032/370/003/210/163/137/063/051/107/050/107/244
END

CKA_ISSUER MULTILINE_OCTAL
\060/201/200/061/013/060/001/11/006/003/125/004/006/023/002/124/122
\061/017/060/015/060/003/125/004/007/023/006/101/156/153/141/162
\114/061/031/060/027/060/003/125/004/012/023/020/105/055/124/165
\114/162/141/040/105/102/107/040/101/056/123/056/061/035/060/033
\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
\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
# 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
CKA_CLASS CK_OBJECT_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
\060/201/200/061/013/060/001/11/006/003/125/004/006/023/002/124/122
\061/017/060/015/060/003/125/004/007/023/006/101/156/153/141/162
\114/061/031/060/027/060/003/125/004/012/023/020/105/055/124/165
\114/162/141/040/105/102/107/040/101/056/123/056/061/035/060/033
\006/003/125/004/013/023/024/105/055/124/165/147/162/141/040/124
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "E-Tugra Global Root CA ECC v3"
# Issuer: CN=E-Tugra Global Root CA ECC v3,OU=E-Tugra Trust Center,O=E-Tugra EBG A.S.,L=Ankara,C=TR
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
\06\02\01\02\00\06\10\03\06\00\03\12\5\004\00\06\23\02\02\12\4\122
\06\10\17\06\00\15\06\00\03\12\5\004\00\23\26\06\00\10\15\6\05\4\14\1\162
\14\10\16\03\10\06\02\27\06\00\03\12\5\004\01\22\20\05\05\12\4\165
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jar/io/netty/handler/codec/http2/HpackStaticTable.java
* /opt/cola/permissions/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /opt/cola/permissions/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/HpackDecoder.java
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jar/io/netty/handler/codec/http2/HpackDecoder.java
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jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
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jar/io/netty/handler/codec/http2/HpackDynamicTable.java
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jar/io/netty/handler/codec/http2/HpackEncoder.java

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jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java
* /opt/cola/permissions/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
* /opt/cola/permissions/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/Http2OutboundFrameLogger.java
* /opt/cola/permissions/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameLogger.java

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  image/io.netty/codec-http2/native-image.properties
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  jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java
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// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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jar/io/netty/handler/codec/http2/HttpEmptyDataFrameConnectionDecoder.java
* /opt/cola/permits/1258888342_1643118327.83/0/netty-codec-http2-4-1-48-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java

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1.464 geronimo-javamail 1.7.1
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1.465 zstd-jni 1.4.4-7

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* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/SSLTask.java
* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
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* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethod.java
* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/AsyncSSLPrivateKeyMethodAdapter.java
* /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-jar/io/netty/internal/tcnative/AsyncTask.java

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jar/io/netty/internal/tcnative/Library.java
 * /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-
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 * /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-
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 * /opt/cola/permits/1304529351_1649673025.38/0/netty-tcnative-classes-2-0-51-final-sources-
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 */
/**
 * Returns a list of all element keys in the cache, whether or not they are expired.
 * <p/>
 * The returned keys are unique and can almost be considered a set. See {@link net.sf.ehcache.store.CacheKeySet CacheKeySet} for
 * more details.
 * <p/>
 * The List returned is not live. It is a copy.
 * <p/>
 * The time taken is O(n). On a single CPU 1.8Ghz P4, approximately 8ms is required
 * for each 1000 entries.
 * <p/>
 * @return a list of {@link Object} keys
 * @throws IllegalStateException if the cache is not {@link Status#STATUS_ALIVE} Status
 * @see net.sf.ehcache.store.CacheKeySet
 */

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* /opt/cola/permits/1258365803_1643062100.62/0/ehcache-core-2-6-5-sources-1-jar/net/sf/ehcache/Cache.java

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  jar/org/objectweb/asm/util/TraceSignatureVisitor.java
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1.478 cas-client-core 3.2.1

1.479 py3-webencodings 0.5.1-r3
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1.481 gdbm 1.13 r1

1.482 apache-servicemix-bundles-kafka-clients 2.5.0_1

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* /opt/cola/permits/1313350711_1650565909.48/0/netty-codec-redis-4-1-75-final-sources-2-jar/META-INF/maven/io.netty/netty-codec-redis/pom.xml
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* /opt/cola/permits/1313350711_1650565909.48/0/netty-codec-redis-4-1-75-final-sources-2- jar/io/netty/handler/codec/redis/DefaultBulkStringRedisContent.java

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* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1.jar/org/springframework/security/ldap/userdetails/InetOrgPerson.java
* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1.jar/org/springframework/security/ldap/authentication/PasswordComparisonAuthenticator.java
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* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1.jar/org/springframework/security/ldap/search/LdapUserSearch.java
* /opt/cola/permits/1149231456_1643325174.83/0/spring-security-ldap-3-0-0-release-sources-1.jar/org/springframework/security/ldap/userdetails/Person.java
1.487 gettext 0.21-r0

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Whether this is true is especially significant if the work can be
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  jar/netty_unix_util.h
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  jar/io/netty/channel/unix/SocketWritableByteChannel.java
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  jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1301916987_1649305365.63/0/netty-transport-native-unix-common-4-1-75-final-sources-1-
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* 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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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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MortBay

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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

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

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DC_UNSET = -1, DC_NONE = 0, DC_INTEGRAL = 1, DC_CONFIDENTIAL = 2, DC_FORBIDDEN = 3; *
2=DC_CONFIDENTIAL if (c < 0 || c > DC_CONFIDENTIAL) throw new
IllegalArgumentException("Constraint out of range"); * 2=DC_CONFIDENTIAL + (_dataConstraint ==
DC_UNSET ? "DC_UNSET" : (_dataConstraint == DC_NONE ? "NONE" : (_dataConstraint ==
DC_INTEGRAL ? "INTEGRAL" : "CONFIDENTIAL")));'

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available at // You may elect to redistribute this code under either of these licenses. //Equivalent to //<user-data-
constraint><transport-guarantee>CONFIDENTIAL</transport-guarantee></user-data-constraint>
constraint.setDataConstraint((transport.equals(TransportGuarantee.CONFIDENTIAL)?Constraint.DC_CONFIDEN
TIAL:Constraint.DC_NONE)); if (dataConstraint == UserDataConstraint.Confidential || dataConstraint ==
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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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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_snprintf.c:

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import java.io.Serializable;

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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
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidiProps.h/.c.

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Replaceable 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.

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

Replaceable 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.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:
<ul>
  <li>Set the metadata of the new text to the metadata of the first character replaced</li>
  <li>If no characters are replaced, use the metadata of the previous character</li>
  <li>If there is no previous character (i.e. start == 0), use the following character</li>
  <li>If there is no following character (i.e. the replaceable was
empty), use default metadata<br>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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

<p><em>Note:</em> 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
@author Alan Liu
@stable ICU 2.0

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* /opt/cola/permits/1291285532_1647779638.24/0/everit-json-schema-1-14-0-sources-
jar/org/everit/json/schema/JSONPointerException.java

1.528 zookeeper 3.6.0
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  jar/org/jasig/cas/authentication/principal/WebApplicationService.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-
  jar/org/jasig/cas/audit/spi/TicketAsFirstParameterResourceResolver.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-
  jar/org/jasig/cas/services/web/RegisteredServiceSimpleFormController.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-
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* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/Authentication.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/CentralAuthenticationServiceImpl.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/validation/ImmutableAssertionImpl.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/web/StatisticsController.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/web/view/Saml10SuccessResponseView.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/validation/Cas10ProtocolValidationSpecification.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/handler/BlockedCredentialsAuthenticationException.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/handler/support/HttpBasedServiceCredentialsAuthenticationHandler.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/ticket/TicketGrantingTicket.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/validation/Cas20WithoutProxyingValidationSpecification.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/util/DefaultUniqueTicketIdGenerator.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/util/SamlCompliantUniqueTicketIdGenerator.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/ticket/registry/TicketRegistry.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/ticket/TicketValidationException.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/ticket/ServiceTicketImpl.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/web/view/AbstractCasView.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/util/LdapUtils.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/ticket/support/TimeoutExpirationPolicy.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/ticket/Ticket.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/ticket/TicketException.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/services/UnauthorizedServiceException.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/services/UnauthorizedServiceException.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/authentication/LinkedAuthenticationHandlerAndCredentialsToPrincipalResolverAuthenticationManager.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/web/support/ArgumentExtractor.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/authentication/AuthenticationManagerImpl.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/authentication/handler/AuthenticationHandler.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/web/flow/GenerateServiceTicketAction.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1.jar/org/jasig/cas/web/flow/SendTicketGrantingTicketAction.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/web/flow/AuthenticationViaFormAction.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/ticket/ExpirationPolicy.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/SamlAuthenticationMetaDataPopulator.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/CasVersion.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/principal/CredentialsToPrincipalResolver.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/services/web/ServiceThemeResolver.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/ticket/support/HardTimeoutExpirationPolicy.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/authentication/ImutuableAuthentication.java
* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-jar/org/jasig/cas/ticket/proxy/support/Cas20ProxyHandler.java
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 */
/**
 * Marker interface for credentials required to authenticate a principal.
 */

* The Credentials is an opaque object that represents the information a user
* asserts proves that the user is who it says it is. In CAS, any information
* that is to be presented for authentication must be wrapped (or implement) the
* Credentials interface. Credentials can contain a userid and password, or a
* Certificate, or an IP address, or a cookie value. Some credentials require
* validation, while others (such as container based or Filter based validation)
* are inherently trustworthy.
* 
* People who choose to implement their own Credentials object should take care that
any toString() they implement does not accidentally expose confidential information.
* toString() can be called from various portions of the CAS code base, including logging
* statements, and thus toString should never contain anything confidential or anything
* that should not be logged.
* <p>
* Credentials objects that are included in CAS do NOT expose any confidential information.
* <p>
* @author William G. Thompson, Jr.
* @version $Revision: 1.2 $ $Date: 2007/01/22 20:35:26 $
* @since 3.0
* <p>
* This is a published and supported CAS Server 3 API.
* </p>
*/

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* /opt/cola/permits/1040494029_1643518269.29/0/cas-server-core-3-4-2-sources-1-
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1.531 py3-parsing 2.4.7-r0
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 */
/**
 * Converts a Google Auth Library [@link Credentials] to [@link CallCredentials].
 *
 * <p>Although this is a stable API, note that the returned instance's API is not stable. You are
 * free to use the class name [@code CallCredentials] and pass the instance to other code, but the
 * instance can't be called directly from code expecting stable behavior. See [@link CallCredentials].
 *
 */

1.534 py3-chardet 3.0.4-r4
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

That's all there is to it!

1.535 py3-webencodings 0.5.1-r4
1.535.1 Available under license :
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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""
```
Map encoding labels to their name.

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# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    "]
labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    '%s:%s %s,' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}
return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), '__init__.py'), 'r').read()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'), 'r').read()
encoding='utf-8'
).read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/setup.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO
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Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/webencodings/README.rst

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

dependency: python-webencodings

==============

This is a Python implementation of the `WHATWG Encoding standard` http://encoding.spec.whatwg.org/`

* Latest documentation: `http://packages.python.org/webencodings/`
* Source code and issue tracker: `https://github.com/gsnedders/python-webencodings`
* PyPI releases: `http://pypi.python.org/pypi/webencodings`
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1` tools need to use a particular set of aliases for encoding labels as well as some overriding rules.

For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

Found in path(s):
* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/README.rst
1.536 xpp3-min 1.1.4c

1.537 mockito-core 3.3.3

1.537.1 Available under license:

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Version 2.0, January 2004
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**1.539 concurrent 1.3.4**

**1.539.1 Available under license:**

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/*
File: ReaderPreferenceReadWriteLock.java

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History:
Date   Who    What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ReaderPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncSortedMap.java

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History:
Date   Who    What
1Aug1998 dl Create public version
*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/EDU/oswego/cs/dl/util/concurrent/SyncSortedMap.java
No license file was found, but licenses were detected in source scan.

/*
File: Semaphore.java

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and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version
5Aug1998 dl   replaced int counters with longs
24Aug1999 dl   release(n): screen arguments
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Semaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizationTimer.java

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History:
Date   Who   What
7Jul1998 dl   Create public version
16Jul1998 dl   fix initialization error for compute loops
combines into one frame
misc layout and defaults changes
increase printed precision
overlap get/set in Executor tests
Swap defaults for swing import
Active thread counts reflect executors
30Aug1998 dl   Misc revisions to mesh with 1.1.0
27Jan1999 dl   Eliminate GC calls
24Nov2001 dl   Increase some default values
*/
/*
File: SemaphoreControlledChannel.java

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and everyone contributing, testing, and using this code.

History:

Date       Who                What
16Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs
08dec2001  dl               reflective constructor now uses longs too.
*/

/*
File: Task.java

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History:

Date       Who                What
7Jan1999   dl                 first release
14jan1999  dl                 simplify start() semantics;
                              improve documentation
18Jan1999  dl                 Eliminate useless time-based waits.
7Mar1999   dl                 Add reset method,
                              add array-based composite operations
27Apr1999  dl                 Rename
*/
No license file was found, but licenses were detected in source scan.

/*
File: LayeredSync.java

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and everyone contributing, testing, and using this code.

History:
Date   Who        What
1Aug1998 dl     Create public version
*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/LayeredSync.java
No license file was found, but licenses were detected in source scan.

/*
File: ClockDaemon.java

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History:
Date   Who        What
29Aug1998 dl     created initial public version
17dec1998 dl     null out thread after shutdown
*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/ClockDaemon.java
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File: WaitableLong.java

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History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>23Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>13May2004</td>
<td>dl</td>
<td>Add notifying bit ops</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitableLong.java
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*/

File: PooledExecutor.java

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History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>19Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>29Aug1998</td>
<td>dl</td>
<td>rely on ThreadFactoryUser, remove ThreadGroup-based methods adjusted locking policies</td>
</tr>
<tr>
<td>3Mar1999</td>
<td>dl</td>
<td>Worker threads sense decreases in pool size</td>
</tr>
<tr>
<td>31Mar1999</td>
<td>dl</td>
<td>Allow supplied channel in constructor; add methods createThreads, drain</td>
</tr>
<tr>
<td>15May1999</td>
<td>dl</td>
<td>Allow infinite keepalives</td>
</tr>
<tr>
<td>21Oct1999</td>
<td>dl</td>
<td>add minimumPoolSize methods</td>
</tr>
<tr>
<td>7Sep2000</td>
<td>dl</td>
<td>BlockedExecutionHandler now an interface, new DiscardOldestWhenBlocked policy</td>
</tr>
<tr>
<td>12Oct2000</td>
<td>dl</td>
<td>add shutdownAfterProcessingCurrentlyQueuedTasks</td>
</tr>
<tr>
<td>13Nov2000</td>
<td>dl</td>
<td>null out task ref after run</td>
</tr>
<tr>
<td>8Apr2001</td>
<td>dl</td>
<td>declare inner class ctor protected</td>
</tr>
<tr>
<td>12Nov2001</td>
<td>dl</td>
<td>Better shutdown support</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blocked exec handlers can throw IE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Simplify locking scheme</td>
</tr>
<tr>
<td>25Jan2001</td>
<td>dl</td>
<td>[get,set]BlockedExecutionHandler now public</td>
</tr>
<tr>
<td>17May2002</td>
<td>dl</td>
<td>null out task var in worker run to enable GC.</td>
</tr>
<tr>
<td>30Aug2003</td>
<td>dl</td>
<td>check for new tasks when timing out</td>
</tr>
<tr>
<td>18Feb2004</td>
<td>dl</td>
<td>replace dead thread if no others left</td>
</tr>
</tbody>
</table>

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/PooledExecutor.java
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/*
File: Rendezvous.java

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History:
Date Who What
11Jun1998 dl Create public version
30Jul1998 dl Minor code simplifications*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Rendezvous.java
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File: Executor.java

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History:
Date Who What
19Jun1998 dl Create public version*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Executor.java
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/*
File: FIFOReadWriteLock.java

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History:
Date Who What
11Jun1998 dl Create public version
Replace main algorithm with fairer version based on one by Alexander Terekhov

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FIFOReadWriteLock.java
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File: TimeoutException.java

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History:
Date       Who                What
29Jun1998  dl               Create public version
4Aug1998   dl               Change to extend InterruptedException

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/TimeoutException.java
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Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/taskDemo/Heat.java
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/*
* File: PropertyChangeMulticaster.java

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This class is based on Sun JDK java.beans.VetoableChangeSupport,
in which is copyrighted by Sun. (It shares practically no code, but for
consistency, the documentation was lifted and adapted here.)

History:
Date       Who    What
14Mar1999   dl     first release
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/VetoableChangeMulticaster.java
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/*
* File: LockedExecutor.java

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History:
Date       Who    What
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LockedExecutor.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedLong.java

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History:
Date    Who    What
19Jun1998 dl    Create public version
15Apr2003 dl    Removed redundant "synchronized" for multiply()
23jan04 dl    synchronize self-swap case for swap
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedLong.java
No license file was found, but licenses were detected in source scan.

/*
File: ReentrantLock.java

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and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
5Aug1998 dl    replaced int counters with longs
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantLock.java
No license file was found, but licenses were detected in source scan.

/*
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-<br>jar/EDU/oswego/cs/dl/util/concurrent/TimeoutSync.java
No license file was found, but licenses were detected in source scan.

File: FJTaskRunner.java

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History:
Date   Who    What
7Jan1999 dl   First public release
13Jan1999 dl   correct a stat counter update;
               ensure inactive status on run termination;
               misc minor cleanups
14Jan1999 dl   Use random starting point in scan;
               variable renamings.
18Jan1999 dl   Runloop allowed to die on task exception;
               remove useless timed join
22Jan1999 dl   Rework scan to allow use of priorities.
6Feb1999 dl    Documentation updates.
7Mar1999 dl    Add array-based coInvoke
31Mar1999 dl   Revise scan to remove need for NullTasks
27Apr1999 dl   Renamed
23oct1999 dl   Earlier detect of interrupt in scanWhileIdling
24nov1999 dl   Now works on JVMs that do not properly
               implement read-after-write of 2 volatiles.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-<br>jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunner.java
No license file was found, but licenses were detected in source scan.

/*
File: Takable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>011Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/Takable.java
No license file was found, but licenses were detected in source scan.

/*
File: Slot.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>25Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>25aug1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/Slot.java
No license file was found, but licenses were detected in source scan.

/*
File: WaiterPreferenceSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/WaiterPreferenceSemaphore.java
No license file was found, but licenses were detected in source scan.

File: FutureResult.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
30Jun1998  dl               Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/FutureResult.java
No license file was found, but licenses were detected in source scan.

File: CopyOnWriteArrayList.java

Written by Doug Lea. Adapted and released, under explicit
permission, from JDK1.2 ArrayList.java
which carries the following copyright:

* Copyright 1997 by Sun Microsystems, Inc.,
* 901 San Antonio Road, Palo Alto, California, 94303, U.S.A.
* All rights reserved.
* This software is the confidential and proprietary information
* of Sun Microsystems, Inc. ("Confidential Information"). You
* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.

History:
Date       Who                What
21Jun1998  dl               Create public version
9Oct1999 dl faster equals
29Jun2001 dl Serialization methods now private

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArrayList.java
No license file was found, but licenses were detected in source scan.

/*/ File: ThreadedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
21Jun1998 dl Create public version
28Aug1998 dl factored out ThreadFactoryUser

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ThreadedExecutor.java
No license file was found, but licenses were detected in source scan.

;/* File: WaitFreeQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
16Jun1998 dl Create public version
5Aug1998 dl replaced int counters with longs
17Nov2001 dl Simplify given Bill Pugh's observation
               that counted pointers are unnecessary.

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitFreeQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: Mutex.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Mutex.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedPriorityQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
16Jun1998 dl    Create public version
25aug1998 dl    added peek
29aug1998 dl    pulled heap mechanics into separate class
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedPriorityQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date  Who    What
11Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedChannel.java
No license file was found, but licenses were detected in source scan.

*/
File: SynchronizedShort.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who    What
19Jun1998 dl  Create public version
15Apr2003 dl  Removed redundant “synchronized” for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedShort.java
No license file was found, but licenses were detected in source scan.

*/
File: ReentrantWriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who    What
26aug1998 dl  Create public version
7sep2000 dl  Readers are now also reentrant
19jan2001 dl  Allow read->write upgrades if the only reader
10dec2002 dl  Throw IllegalStateException on extra release
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantWriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: Callable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
30Jun1998 dl Create public version
5Jan1999 dl Change Exception to Throwable in call signature
27Jan1999 dl Undo last change
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/Callable.java
No license file was found, but licenses were detected in source scan.

/*
File: PrioritySemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/PrioritySemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableRef.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date   Who     What
19Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitableRef.java
No license file was found, but licenses were detected in source scan.
*/

File: LinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who     What
11Jun1998 dl    Create public version
25aug1998 dl    added peek
10dec1998 dl    added isEmpty
10oct1999 dl    lock on node object to ensure visibility
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/LinkedQueue.java
No license file was found, but licenses were detected in source scan.
*/

File: ConcurrentHashMap

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 HashMap.java and Hashtable.java which carries the following copyright:

* Copyright 1997 by Sun Microsystems, Inc.,
* 901 San Antonio Road, Palo Alto, California, 94303, U.S.A.
* All rights reserved.
*
* This software is the confidential and proprietary information
* of Sun Microsystems, Inc. ("Confidential Information"). You
* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.
History:
Date   Who   What
26nov2000 dl Created, based on ConcurrentReaderHashMap
12jan2001 dl public release
17nov2001 dl Minor tunings
24oct2003 dl Segment implements Serializable
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentHashMap.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedBuffer.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl Create public version
17Jul1998 dl Simplified by eliminating wait counts
25aug1998 dl added peek
5May1999 dl replace % with conditional (slightly faster)
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedBuffer.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncSortedSet.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
1Aug1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedSet.java
No license file was found, but licenses were detected in source scan.

/*
File: Channel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl   Create public version
25aug1998 dl   added peek
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Channel.java
No license file was found, but licenses were detected in source scan.

/*
File: NullSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
1Aug1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/NullSync.java
No license file was found, but licenses were detected in source scan.

/*
File: QueuedSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date       Who                What
11Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs
24Aug1999  dl               release(n): screen arguments
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/QueuedSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableChar.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
23Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableChar.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
15Apr2003  dl               Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedByte.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

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<tbody>
<tr>
<td>23Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>13may2004</td>
<td>dl</td>
<td>Add notifying bit ops</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableByte.java

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

/

File: BoundedLinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
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<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>17Jul1998</td>
<td>dl</td>
<td>Simplified by eliminating wait counts</td>
</tr>
<tr>
<td>25aug1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
<tr>
<td>10oct1999</td>
<td>dl</td>
<td>lock on node object to ensure visibility</td>
</tr>
<tr>
<td>27jan2000</td>
<td>dl</td>
<td>setCapacity forces immediate permit reconcile</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedLinkedQueue.java

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

/

File: SwingWorker.java

Originally written by Joseph Bowbeer and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Originally part of jozart.swingutils.
Adapted for util.concurrent by Joseph Bowbeer.

/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/SwingWorker.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronousChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
17Jul1998 dl    Disabled direct semaphore permit check
31Jul1998 dl    Replaced main algorithm with one with
  better scaling and fairness properties.
25aug1998 dl    added peek
24Nov2001 dl    Replaced main algorithm with faster one.
/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronousChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: ThreadFactory.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
30Jun1998 dl    Create public version
/*

Found in path(s):
/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactory.java
No license file was found, but licenses were detected in source scan.

/*
 File: Puttable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun98 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Waitable.java
No license file was found, but licenses were detected in source scan.

/*
 File: Sync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun98 dl    Create public version
5Aug98  dl    Added some convenient time constants
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Sync.java
No license file was found, but licenses were detected in source scan.

/*
 File: WaitableDouble.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date       Who                What
23Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableDouble.java
No license file was found, but licenses were detected in source scan.

File: DirectExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
21Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/DirectExecutor.java
No license file was found, but licenses were detected in source scan.

File: Heap.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
29Aug1998  dl               Refactored from BoundedPriorityQueue
08dec2001  dl               Null out slots of removed items
03feb2002  dl               Also null out in clear
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Heap.java
No license file was found, but licenses were detected in source scan.

/*
File: ConditionVariable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/CondVar.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncMap.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
*/opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/SyncMap.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableShort.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
23Jun1998 dl Create public version
13may2004 dl Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitableShort.java
No license file was found, but licenses were detected in source scan.

/*
File: ReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedFloat.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedFloat.java
No license file was found, but licenses were detected in source scan.

/*
File: FIFOSemaphore.java
Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who    What
11Jun1998   dl     Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/FIFOSemaphore.java
No license file was found, but licenses were detected in source scan.

File: SynchronizedInt.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who    What
19Jun1998   dl     Create public version
15Apr2003   dl     Removed redundant "synchronized" for multiply()

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedInt.java
No license file was found, but licenses were detected in source scan.

File: QueuedExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who    What
21Jun1998   dl     Create public version
28Aug1998   dl     rely on ThreadFactoryUser, restart now public
4May1999    dl     removed redundant interrupt detect
7sep2000 dl    new shutdown methods
20may2004 dl    can shutdown even if thread not created yet
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/QueuedExecutor.java
No license file was found, but licenses were detected in source scan.

*/
File: SyncSet.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who     What
1Aug1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/SyncSet.java
No license file was found, but licenses were detected in source scan.

*/
File: SynchronizedBoolean.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date      Who     What
19Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedBoolean.java
No license file was found, but licenses were detected in source scan.

/*
File: DefaultChannelCapacity.java
Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who                What
11Jun1998 dl               Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/DefaultChannelCapacity.java
No license file was found, but licenses were detected in source scan.

/*
File: LinkedNode.java

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History:
Date  Who                What
11Jun1998 dl               Create public version
25may2000 dl               Change class access to public
26nov2001 dl               Added no-arg constructor, all public access.

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LinkedNode.java
No license file was found, but licenses were detected in source scan.

/*
File: ThreadFactoryUser.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date  Who                What
28aug1998 dl               refactored from Executor classes
*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactoryUser.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableInt.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
23Jun1998 dl    Create public version
13may2004 dl    Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableInt.java
No license file was found, but licenses were detected in source scan.

/*
File: CountDown.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CountDown.java
No license file was found, but licenses were detected in source scan.

/*
File: WriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

Date       Who                What
11Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs
25Aug1998  dl               record writer thread
3May1999   dl               add notifications on interrupt/timeout

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WriterPreferenceReadWriteLock.java

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

File: FJTaskRunnerGroup.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

Date       Who                What
7Jan1999   dl                 First public release
12Jan1999  dl                 made getActiveCount public; misc minor cleanup.
14Jan1999  dl                 Added executeTask
20Jan1999  dl                 Allow use of priorities; reformat stats
6Feb1999   dl                 Lazy thread starts
27Apr1999  dl                 Renamed

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunnerGroup.java

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

version.
<li>All classes are released to the public domain and may be used

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/intro.html
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/package-summary.html
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
/*
File: Latch.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
  Date   Who    What
  11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/Latch.java
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/*
File: Barrier.java

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History:
  Date   Who    What
  11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/Barrier.java
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/*
File: SynchronizedDouble.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
15Apr2003  dl               Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedDouble.java
No license file was found, but licenses were detected in source scan.

/*
File: Fraction.java

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and everyone contributing, testing, and using this code.

History:
Date       Who                What
7Jul1998   dl               Create public version
11Oct1999  dl               add hashCode
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/misc/Fraction.java
No license file was found, but licenses were detected in source scan.

/*
File: ObservableSync.java

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History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ObservableSync.java
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/*
File: ConcurrentReaderHashMap

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 HashMap.java and Hashtable.java which carries the following copyright:

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History:
Date       Who                What
28oct1999  dl               Created
14dec1999  dl               jmm snapshot
19apr2000  dl               use barrierLock
12jan2001  dl               public release
17nov2001  dl               Minor tunings
20may2002  dl               BarrierLock can now be serialized.
09dec2002  dl               Fix interference checks.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentReaderHashMap.java
No license file was found, but licenses were detected in source scan.

/*

File: SyncCollection.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncCollection.java
No license file was found, but licenses were detected in source scan.

/*
File: BrokenBarrierException.java

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and everyone contributing, testing, and using this code.

History:
Date   Who    What
29Jun1998   dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BrokenBarrierException.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableFloat.java

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This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
23Jun1998   dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableFloat.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedChar.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
*/
**Open Source Used In Crosswork Common EMS Services 4.0.0 5415**

19Jun1998 dl Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedChar.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedRef.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedRef.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableBoolean.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
19Jun1998 dl Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitableBoolean.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedVariable.java

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and everyone contributing, testing, and using this code.

History:

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<td>30Jun1998</td>
<td>dl</td>
<td>Create public version</td>
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/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedVariable.java
No license file was found, but licenses were detected in source scan.

/*

File: CyclicBarrier.java

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History:

<table>
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<td>11Jul1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>28Aug1998</td>
<td>dl</td>
<td>minor code simplification</td>
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/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CyclicBarrier.java
No license file was found, but licenses were detected in source scan.

/*

File: PropertyChangeMulticaster.java

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and everyone contributing, testing, and using this code.

This class is based on Sun JDK java.beans.VetoableChangeSupport,
which is copyrighted by Sun. (It shares practically no code, but for
consistency, the documentation was lifted and adapted here.)

History:

<table>
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<th>What</th>
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<td>14Mar1999</td>
<td>dl</td>
<td>first release</td>
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Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/PropertyChangeMulticaster.java
No license file was found, but licenses were detected in source scan.

File: SyncList.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998  dl               Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncList.java
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File: CopyOnWriteArraySet.java

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Thanks for the assistance and support of Sun Microsystems Labs,
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History:
Date       Who                What
22Jun1998  dl               Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArraySet.java
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TimedCallable.java

Originally written by Joseph Bowbeer and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Originally part of jozart.swingutils.
Adapted by Doug Lea for util.concurrent.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
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<td>11dec1999</td>
<td>dl</td>
<td>Adapted for util.concurrent</td>
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Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/TimedCallable.java

1.540 perf4j 0.9.12

1.540.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/javalog/GraphingStatisticsHandler.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/GroupedTimingStatistics.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/loggers/StopWatchLogIterator.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/servlet/package-info.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/LogParser.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/aop/Profiled.java
* /opt/cola/permits/1136700116_1613864489.01/0/perf4j-0-9-12-sources-2-jar/org/perf4j/aop/AbstractTimingAspect.java
1.541 idna 13.0.0

1.541.1 Available under license:
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1.542 surefire-testng 2.20.1

1.542.1 Available under license:

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JUnit test library (junit-4.*.jar) & JaCoCo (*jacoco*)

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1.548 netty-transport-classes-epoll

4.1.75.Final

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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
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jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
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jar/io/netty/channel/epoll/EpollDatagramChannel.java
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jar/io/netty/channel/epoll/EpollEventLoopGroup.java
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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1-
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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.
 */
/**
 * Set the {@code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/cola/permits/13017037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollServerChannelConfig.java
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* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1301917037_1649305305.07/0/netty-transport-classes-epoll-4-1-75-final-sources-1.jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java

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 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
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* /opt/cola/permits/1110784594_1606854390.34/0/janino-3-0-7-sources-jar/org/codehaus/janino/TokenStream.java
* /opt/cola/permits/1110784594_1606854390.34/0/janino-3-0-7-sources-jar/org/codehaus/janino/TokenType.java

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1.554 netty-tcnative-boringssl-static
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* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tnative/SSL.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tnative-boringssl-static-2-0-30-final-sources-jar/io/netty/internal/tnative/Library.java

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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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  jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/SessionTicketKey.java
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  jar/io/netty/internal/tcnative/CertificateCallback.java
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jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/SniHostNameMatcher.java
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jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/SSLTask.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1258903337_1643118323.99/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/CertificateVerifierTask.java
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1.555 py3-six 1.15.0-r0

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1.556 apk-tools 2.10.5-r2

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1.562 jackson 2.12.1

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1.567 person-directory-api 1.5.0-RC6

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1.570 lombok 1.18.12

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1.572 libidn 2.3.2-r0

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  jar/org/eclipse/jetty/servlet/ListenerHolder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/Source.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/jmx/ServletMappingMBean.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/jmx/ServletMapping.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/jmx/HolderMBean.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/ServletMapping.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/DefaultServlet.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/listener/package-info.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/FilterHolder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
  jar/org/eclipse/jetty/servlet/BaseHolder.java
* /opt/cola/permits/1258903793_1643122048.11/0/jetty-servlet-9-4-11-v20180605-sources-
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/opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/time/FastDateFormat.java
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/opt/cola/permits/1136703788_1613865199.18/0/commons-lang-2-0-sources-3-jar/org/apache/commons/lang/builder/EqualsBuilder.java
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Zstd-jni: JNI bindings to Zstd Library

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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
* {#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
* {#SOURCE_OBJECT_LIST_PROPERTY objects to be serialized} as well as the
* {#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: {#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>
* <strong>Note</strong>: As a custom SAX parser, this class
* ignores the &lt;code&gt;systemId&lt;/code&gt; argument of this method
* and relies on the proprietary SAX property
* [@link #SOURCE_OBJECT_LISTPROPERTY]) 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):
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  jar/com/thoughtworks/xstream/io/xml/AbstractXppDriver.java
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  jar/com/thoughtworks/xstream/io/path/Path.java
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jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java

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jar/com/thoughtworks/xstream/converters/extended/PropertyEditorCapableConverter.java

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jar/com/thoughtworks/xstream/persistence/StreamStrategy.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/javabean/NativePropertySorter.java
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jar/com/thoughtworks/xstream/converters/reflection/ObjectAccessException.java
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jar/com/thoughtworks/xstream/annotations/Annotations.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/annotations/XStreamContainedType.java
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jar/com/thoughtworks/xstream/converters/reflection/FieldDictionary.java
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jar/com/thoughtworks/xstream/annotations/XStreamConverters.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/reflection/SunLimitedUnsafeReflectionProvider.java
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  jar/com/thoughtworks/xstream/converters/ConverterRegistry.java
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  jar/com/thoughtworks/xstream/io/binary/BinaryStreamWriter.java
  /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/binary/ReaderDepthState.java
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*/opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/extended/ThrowableConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/path/PathTracker.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java
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jar/com/thoughtworks/xstream/io/AbstractWriter.java
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jar/com/thoughtworks/xstream/mapper/DynamicProxyMapper.java
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jar/com/thoughtworks/xstream/io/xml/JDomDriver.java
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jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3DomBuilder.java
* /opt/ cola/ permits/ 1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/annotations/AnnotationProvider.java
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jar/com/thoughtworks/xstream/core/util/Base64JavaUtilCodec.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
 jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/StringCodec.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XmlFriendlyReader.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/mapper/SystemAttributeAliasingMapper.java
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 * Created on 10. April 2007 by Guilherme Silveira
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/reflection/ImmutableFieldKeySorter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldKey.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/reflection/FieldKeySorter.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/mapper/AnnotationConfiguration.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/mapper/ImmutableTypesMapper.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream.mapper/LocalConversionMapper.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream.core.util/QuickWriter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream.core.ReferenceByXPathUnmarshaller.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/converters/reflection/XStream12FieldKeySorter.java
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  jar/com/thoughtworks/xstream/core/util/Primitives.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
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  jar/com/thoughtworks/xstream/mapper/MapperWrapper.java
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*/opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
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jar/com/thoughtworks/xstream/converters/collections/TreeMapConverter.java
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*/opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
*/opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshallder.java
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  jar/com/thoughtworks/xstream/converters/time/MonthDayConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/converters/time/PeriodConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/converters/time/DurationConverter.java
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  jar/com/thoughtworks/xstream/converters/extended/FontConverter.java
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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: 1.4.15
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: 1.4.15 Sources
Eclipse-SourceBundle: xstream;version=1.4.15
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2020-12-12T23:22:23Z
X-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4

Found in path(s):
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XomReader.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/XomReader.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/xml/JDom2Driver.java

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  jar/com/thoughtworks/xstream/io/naming/StaticNameCoder.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/naming/NameCoderWrapper.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/xml/XStream11NameCoder.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/io/naming/NoNameCoder.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/json/AbstractJsonWriter.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/persistence/AbstractFilePersistenceStrategy.java
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Found in path(s):
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/core/util/TypedNull.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/NoPermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/NullPermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/ExplicitTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/ArrayTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/WildcardTypePermission.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
  jar/com/thoughtworks/xstream/security/RegExpTypePermission.java
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  jar/com/thoughtworks/xstream/persistence/PersistenceStrategy.java
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jar/com/thoughtworks/xstream/converters/basic/ByteConverter.java
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Found in path(s):
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jar/com/thoughtworks/xstream/converters/extended/NamedCollectionConverter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-
jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamWriterHelper.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/io/ReaderWrapper.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/Converter.java
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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/core/util/PresortedSet.java

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* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/WeekFieldsConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/ThaiBuddhistDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/AbstractChronoLocalDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/JapaneseDateConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/ValueRangeConverter.java
* /opt/cola/permits/1141112140_1614931224.37/0/xstream-1-4-15-sources-jar/com/thoughtworks/xstream/converters/time/MinguoDateConverter.java
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jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java
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jar/com/thoughtworks/xstream/io/AttributeNameIterator.java
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 * com.thoughtworks.xstream.converters.reflection.
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jloup@gzip.org          madler@alumni.caltech.edu
```

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- javae_web_services_1_2.xsd
- javae_web_services_client_1_2.xsd
- javae_6.xsd
- javae_web_services_1_3.xsd
- javae_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
- javae_7.xsd
- javae_web_services_1_4.xsd
- javae_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
- javae_8.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
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- web-fragment_3_0.xsd
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- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsfemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

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* /opt/ws_local/PERMITS_SQL/1068903931_1594468524.84/0/spring-security-web-3-0-3-release-sources-1-jar/org/springframework/security/web/access/AccessDeniedHandlerImpl.java
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1.595 postgresql 42.2.20

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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

-----

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

------

**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.
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1.600 jetcd-core 0.7.1
1.600.1 Available under license:
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Found in path(s):
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/op/Op.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/auth/AuthRoleGrantPermissionResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/resolver/HttpsNameResolver.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/impl/ElectionImpl.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/auth/AuthRoleDeleteResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-jar/io/etcd/jetcd/auth/AuthUserGetResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-
jar/io/etcd/jetcd/impl/LeaseImpl.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/options/DeleteOption.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/cluster/MemberAddResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/election/NotLeaderException.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/support/Errors.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/maintenance/StatusResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/election/CampaignResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/auth/AuthRoleAddResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/maintenance/AlarmType.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/auth/AuthRoleListResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/kv/CompactResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/resolver/HttpsResolverProvider.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/election/NoLeaderException.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/lease/NoSuchLeaseException.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/lease/LeaseGrantResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/lease/LeaseRevokeResponse.java
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources.jar/io/etcd/jetcd/watch/WatchResponse.java
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/*
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---

Open Source Used In Crosswork Common EMS Services 4.0.0 6164
* Defragment one member of the cluster by its endpoint.
*
* After compacting the keyspace, the backend database may exhibit internal
* fragmentation. Any internal fragmentation is space that is free to use
* by the backend but still consumes storage space. The process of
* defragmentation releases this storage space back to the file system.
* Defragmentation is issued on a per-member so that cluster-wide latency
* spikes may be avoided.
*
* Defragment is an expensive operation. User should avoid defragmenting
* multiple members at the same time.
* To defragment multiple members in the cluster, user need to call defragment
* multiple times with different endpoints.
*
* @param target the etcd server endpoint.
* @return the response result
*/

Found in path(s):
* /opt/cola/permits/1346399374_1655448730.2014089/0/jetcd-core-0-7-1-sources-
jar/io/etcd/jetcd/Maintenance.java

1.601 nose 1.3.7

1.601.1 Available under license :

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1.602 jetty-util 9.4.45.v20220203

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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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1.605 classmate 1.5.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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1.606 jetty 8.1.7.v20120910

1.606.1 Available under license:
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Connector: HTTP Connector.
server: MObject:RO:The server for this connector
requestHeaderSize: The size of a request header buffer
requestBufferSize: The size of a request content buffer
responseHeaderSize: The size of a response header buffer
responseBufferSize: The size of a response content buffer
integralPort: Port to use for integral redirections
integralScheme: Scheme to use for integral redirections
confidentialPort: Port to use for confidential redirections
confidentialScheme: Scheme to use for confidential redirections
host: Host name to accept connections on
port: TCP/IP port to accept connections on
maxIdleTime: Maximum time in ms that a connection can be idle before being closed
statsOn: True if statistics collection is turned on.
statsOnMs: Time in milliseconds stats have been collected for.
statsReset(): Reset statistics.
connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).
connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).
connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset()
connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationTotal: Total duration in milliseconds of all open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).
requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).

open(): Open the listening port
close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

Found in path(s):
   */opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/jmx/Connector-mbean.properties
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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard {link java.lang.Appendable} and provides methods to append UTF-8 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to {link #append(byte)} may be needed before state a character is appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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/**

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/handler/HandlerCollection.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/SessionIdManager.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/MultiPartWriter.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/EofException.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/Buffers.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/log/Logger.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/AttributesMap.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/Handler.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/SessionIdManager.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/MultiPartWriter.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/EofException.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/Buffers.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/AttributesMap.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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jar/org/eclipse/jetty/websocket/WebSocketConnectionRFC6455.java
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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/nio/NIOConnector.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/continuation/ContinuationListener.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/websocket/WebSocketParserD00.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/BufferUtil.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/http/gzip/AbstractCompressedStream.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/websocket/WebSocketGeneratorD00.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/ssl/AliasedX509KeyManager.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/ConcurrentHashSet.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/nio/SelectChannelConnector.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/component/AbstractLifeCycle.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/session/HashSessionIdManager.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/InclusiveByteRange.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/preventers/AppContextLeakPreventer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/bio/StreamEndPoint.java
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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/HttpWriter.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/ResourceFactory.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/HttpServlet.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/ResourceCache.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/preventers/GCThreadLeakPreventer.java
jar/org/eclipse/jetty/util/Utf8StringBuilder.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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jar/org/eclipse/jetty/util/component/Dumpable.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/server/Dispatcher.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/util/log/AbstractLogger.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/server/ssl/SslSocketConnector.java
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been told about an
 * confidential port, and said port is not our port, then we're not. This allows separation of
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
 * configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */
/**
 * By default, we're integral, given we speak SSL. But, if we've been told about an integral
 * port, and said port is not our port, then we're not. This allows separation of listeners
 * providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
 * require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
 * client certs providing mere INTEGRAL constraints.
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/util/security/Constraint.java
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*/
/**
 * @see org.eclipse.jetty.server.Connector#getConfidentialPort()
 */
/**
 * @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
 */
/**
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server .Request)
 */
/**
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/**
 * @param confidentialPort
 * The confidentialPort to set.
 */
/**
 * @param confidentialScheme
 * The confidentialScheme to set.
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/server/AbstractConnector.java
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/*
* @(#)UnixCrypt.java0.9 96/11/25
* 
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jar/org/eclipse/jetty/util/security/UnixCrypt.java
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/**
 * @return The port to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @return The schema to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @param request A request
 * @return true if the request is confidential. This normally means the https schema has been used.
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
jar/org/eclipse/jetty/server/Connector.java
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AbstractConnector: Abstract implementation of the Connector interface.
acceptors: The number of acceptor threads.
acceptQueueSize: The size of the accept queue.
acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor
the acceptance of new threads and newly active connections or to favor the handling of already dispatched
connections.
forwardedForHeader: The header name for forwarded for (default x-forwarded-for).
forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host)
forwardedServerHeader: The header name for forwarded server (default x-forwarded-server)
forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server headers.
host: Host name of the server.
hostHeader: Forced value for the host header. Only used if forwarded is true.
soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.
reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.
name: Name of the connector.
resolveNames: Whether or not to use DNS when handling forwards.
confidentialPort: Port to use for confidential redirections.
confidentialScheme: Scheme to use for confidential redirections.
integralPort: Port to use for integral redirections.
integralScheme: Scheme to use for integral redirections.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources, before it is closed.

Found in path(s):
  * /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/jmx/AbstractConnector-mbean.properties
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/**
 * By default, we're confidential, given we speak SSL. But, if we've been
 * told about an confidential port, and said port is not our port, then
 * we're not. This allows separation of listeners providing INTEGRAL versus
 * CONFIDENTIAL constraints, such as one SSL listener configured to require
 * client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */

Found in path(s):
  * /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/ssl/SslSelectChannelConnector.java
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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling {@link Connector#isConfidential(Request)}, or false
 * if there is no connector
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/AbstractHttpConnection.java

1.607 python 3.8.5-r0
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for

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the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

<table>
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<td>PSF</td>
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</tr>
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<td>2.1.2</td>
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<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
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<tr>
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<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
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</table>

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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java
* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources-
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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources.jar/io/netty/handler/codec/http2/HttpStreamChannelId.java
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* /opt/cola/permits/1301917057_1649305377.03/0/netty-codec-http2-4-1-75-final-sources.jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java
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jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
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* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/SubscriptionImpl.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Subscription.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/StreamingConnectionImpl.java
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* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/MessageHandler.java
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* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/package-info.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/Options.java
* /opt/ws_local/PERMITS_SQL/1029654316_1591844163.84/0/java-nats-streaming-2-2-3-sources-jar/io/nats/streaming/examples/Benchmark.java

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# Jackson JSON processor

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

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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### 1.622 xml-apis 2.0.2

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 * Base class for deriving an XML filter.
 *
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 */
This class is designed to sit between an XMLReader and the client application's event handlers. By default, it does nothing but pass requests up to the reader and events on to the handlers unmodified, but subclasses can override specific methods to modify the event stream or the configuration requests as they pass through.

@since SAX 2.0
@author David Megginson, sax@megginson.com
@version 2.0
@see org.xml.sax.XMLFilter
@see org.xml.sax.XMLReader
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.ContentHandler
@see org.xml.sax.ErrorHandler

Basic interface for SAX error handlers.

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If a SAX application needs to implement customized error handling, it must implement this interface and then register an instance with the XML reader using the setErrorHandler method. The parser will then report all errors and warnings through this interface.

WARNING: If an application does not register an ErrorHandler, XML parsing errors will go unreported and bizarre behaviour may result.

For XML processing errors, a SAX driver must use this interface instead of throwing an exception: it is up to the application to decide whether to throw an exception for different types of
errors and warnings. Note, however, that there is no requirement that
the parser continue to provide useful information after a call to
[@link fatalError fatalError] (in other words, a SAX driver class
could catch an exception and report a fatalError).</p>

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.Parser#setErrorHandler
@see org.xml.sax.SAXParseException

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 * Interface for a list of XML attributes.
 *
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 *
 * This interface allows access to a list of attributes in
 * three different ways:
 *
 * <ol>
 *   <li>by attribute index;</li>
 *   <li>by Namespace-qualified name; or</li>
 *   <li>by qualified (prefixed) name.</li>
 * </ol>
 *
 * The list will not contain attributes that were declared
 * #IMPLIED but not specified in the start tag. It will also not
 * contain attributes used as Namespace declarations (xmlns*) unless
 * the <code>http://xml.org/sax/features/namespace-prefixes</code>
 * feature is set to <var>true</var> (it is <var>false</var> by
 * default). </p>
 *
 * If the namespace-prefixes feature (see above) is <var>false</var>,
 * access by qualified name may not be available; if the
 * <code>http://xml.org/sax/features/namespaces</code>
 * feature is <var>false</var>, access by Namespace-qualified names
 * may not be available.</p>
This interface replaces the now-deprecated SAX1 `AttributeList` interface, which does not contain Namespace support. In addition to Namespace support, it adds the `getIndex` methods (below).

The order of attributes in the list is unspecified, and will vary from implementation to implementation.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.helpers.AttributeListImpl

Default implementation for `AttributeList`.

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AttributeList implements the deprecated SAX1 `AttributeList` interface, and has been replaced by the new SAX2 `AttributesImpl` interface.

This class provides a convenience implementation of the SAX `AttributeList` interface. This implementation is useful both for SAX parser writers, who can use it to provide attributes to the application, and for SAX application writers, who can use it to create a persistent copy of an element's attribute specifications:

```java
private AttributeList myatts;

public void startElement (String name, AttributeList atts)
{
    // create a persistent copy of the attribute list
    // for use outside this method
    myatts = new AttributeListImpl(atts);
    [...]
```
Please note that SAX parsers are not required to use this class to provide an implementation of AttributeList; it is supplied only as an optional convenience. In particular, parser writers are encouraged to invent more efficient implementations.

@deprecated This class implements a deprecated interface, \{@link org.xml.sax.AttributeList AttributeList\}; that interface has been replaced by \{@link org.xml.sax.Attributes Attributes\}, which is implemented in the \{@link org.xml.sax.helpers.AttributesImpl AttributesImpl\} helper class.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.AttributeList
@see org.xml.sax.DocumentHandler#startElement

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 * Interface for an XML filter.
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 *
 * An XML filter is like an XML reader, except that it obtains its
 * events from another XML reader rather than a primary source like
 * an XML document or database. Filters can modify a stream of
 * events as they pass on to the final application.
 *
 * The XMLFilterImpl helper class provides a convenient base
 * for creating SAX2 filters, by passing on all \{@link org.xml.sax.EntityResolver EntityResolver\}, \{@link org.xml.sax.DTDHandler DTDHandler\}, \{@link org.xml.sax.ContentHandler ContentHandler\} and \{@link org.xml.sax.ErrorHandler ErrorHandler\} events automatically.
/**
 * Interface for associating a SAX event with a document location.
 *
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 *
 * If a SAX parser provides location information to the SAX
 * application, it does so by implementing this interface and then
 * passing an instance to the application using the content
 * handler's [ @link org.xml.sax.ContentHandler#setDocumentLocator
 * setDocumentLocator ] method. The application can use the
 * object to obtain the location of any other content handler event
 * in the XML source document.</p>
 *
 * Note that the results returned by the object will be valid only
 * during the scope of each content handler method: the application
 * will receive unpredictable results if it attempts to use the
 * locator at any other time.</p>
 *
 * SAX parsers are not required to supply a locator, but they are
 * very strongly encouraged to do so. If the parser supplies a
 * locator, it must do so before reporting any other document events.
 * If no locator has been set by the time the application receives
 * the [ @link org.xml.sax.ContentHandler#startDocument startDocument ]
 * event, the application should assume that a locator is not
 * available.</p>
 *
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.ContentHandler#setDocumentLocator
 */
/**
 * Receive notification of basic DTD-related events.
 * 
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 * 
 * If a SAX application needs information about notations and unparsed entities, then the application implements this interface and registers an instance with the SAX parser using the parser's setDTDHandler method. The parser uses the instance to report notation and unparsed entity declarations to the application.
 * 
 * Note that this interface includes only those DTD events that the XML recommendation requires processors to report:
 * notation and unparsed entity declarations.
 * 
 * The SAX parser may report these events in any order, regardless of the order in which the notations and unparsed entities were declared; however, all DTD events must be reported after the document handler's startDocument event, and before the first startElement event.
 * 
 * It is up to the application to store the information for future use (perhaps in a hash table or object tree). If the application encounters attributes of type "NOTATION", "ENTITY", or "ENTITIES", it can use the information that it obtained through this interface to find the entity and/or notation corresponding with the attribute value.
 * 
 * @since SAX 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser#setDTDHandler
 * @see org.xml.sax.HandlerBase
 */

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Default base class for handlers.

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This class implements the default behaviour for four SAX1 interfaces: EntityResolver, DTDHandler, DocumentHandler, and ErrorHandler. It is now obsolete, but is included in SAX2 to support legacy SAX1 applications. SAX2 applications should use the { @link org.xml.sax.helpers.DefaultHandler DefaultHandler} class instead.

Application writers can extend this class when they need to implement only part of an interface; parser writers can instantiate this class to provide default handlers when the application has not supplied its own.

Note that the use of this class is optional.

This class works with the deprecated { @link org.xml.sax.DocumentHandler DocumentHandler} interface. It has been replaced by the SAX2 { @link org.xml.sax.helpers.DefaultHandler DefaultHandler} class.

@deprecated This class works with the deprecated { @link org.xml.sax.DocumentHandler DocumentHandler} interface. It has been replaced by the SAX2 { @link org.xml.sax.helpers.DefaultHandler DefaultHandler} class.

@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.EntityResolver
@see org.xml.sax.DTDHandler
@see org.xml.sax.DocumentHandler
@see org.xml.sax.ErrorHandler
DOM Level 3 WD Experimental:

The DOM Level 3 specification is at the stage of Working Draft, which represents work in progress and thus may be updated, replaced, or obsoleted by other documents at any time.

XPathEvaluator, which will provide evaluation of XPath 1.0 expressions with no specialized extension functions or variables. It is expected that the XPathEvaluator interface will be implemented on the same object which implements the Document interface in an implementation which supports the XPath DOM module.

XPathEvaluator implementations may be available from other sources that may provide support for special extension functions or variables which are not defined in this specification. The methods of XPathExpression should be named with more-XPath-specific names because the interface will often be implemented by the same object which implements document. No change. The point of interfaces is to localize the implementing namespace. This would make the method names unnecessarily long and complex even though there are no conflicts in the interface itself. The new core method getInterface is designed for discovering interfaces of additional modules that may not be directly implemented on the objects to which they are attached. This could be used to implement XPath on a separate object. The user only refers to the separate interfaces and not the proprietary aggregate implementation. Should entity refs be supported so that queries can be made on them? No change. We will not do this now. They are not part of the XPath data model. Note that they may be present in the hierarchy of returned nodes, but may not directly be requested or returned in the node set. What does createResult create when one wants to reuse the XPath? It is not useful. Removed method. Should ordering be a separate flag, or a type of result that can be requested. As a type of result, it can be better optimized in implementations. It makes sense as a type of result. Changed. Removed method. Implementing XPathEvaluator on Document can be a problem due to conflicts in the names of the methods. The working group finds no better solution. GetInterface in Level 3 permits the object to be implemented separately. We should be committed to this. We will leave this issue open to see if we get more feedback on it. How does this interface adapt to XPath 2.0 and other query languages? No change. This interface is not...
intended to adapt to XPath 2.0 or other languages. The models of these
are likely to be incompatible enough to require new APIs. For alternate
implementations that can use this API, it can be obtained from different
sources. Support for custom variables and functions would be very useful.
No change. It is possible for an implementation to supply alternative
sources of an XPathEvaluator that can be customized with a custom
variable and function context. We do not specify how this is
accomplished. It is too complex to address in this version of the XPath
DOM.
See also the "Document Object Model (DOM) Level 3 XPath Specification".

Interface for an element's attribute specifications.

This module, both source code and documentation, is in the
Public Domain, and comes with "NO WARRANTY".

This is the original SAX1 interface for reporting an element's
attributes. Unlike the new Attributes interface, it does not support Namespace-related information.

When an attribute list is supplied as part of a
event, the list will return valid results only during the
scope of the event; once the event handler returns control
to the parser, the attribute list is invalid. To save a
persistent copy of the attribute list, use the SAX1
helper class.

An attribute list includes only attributes that have been
specified or defaulted: #IMPLIED attributes will not be included.

There are two ways for the SAX application to obtain information
from the AttributeList. First, it can iterate through the entire
list:

public void startElement (String name, AttributeList atts) {

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/xpath/XPathEvaluator.java
No license file was found, but licenses were detected in source scan.
for (int i = 0; i < atts.getLength(); i++) {
    String name = atts.getName(i);
    String type = atts.getType(i);
    String value = atts.getValue(i);
    ...
}

*(Note that the result of getLength() will be zero if there*
* are no attributes.)*

*As an alternative, the application can request the value or*
* type of specific attributes:*</p>

```java
public void startElement (String name, AttributeList atts) {
    String identifier = atts.getValue("id");
    String label = atts.getValue("label");
    ...
}
```

@deprecated This interface has been replaced by the SAX2
    `attributes Attributes`
interface, which includes Namespace support.
@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.DocumentHandler#startElement startElement
@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java
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/**
 * Receive notification of general document events.
 *
 *<blockquote>
 *<em>This module, both source code and documentation, is in the
 *Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 *<blockquote>
 *
 *<p>This was the main event-handling interface for SAX1; in
 *SAX2, it has been replaced by `contentHandler` interface, which includes Namespace support.
@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.DocumentHandler#startElement startElement
@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/AttributeList.java
No license file was found, but licenses were detected in source scan.

/**
 * Receive notification of general document events.
 *
 *<blockquote>
 *<em>This module, both source code and documentation, is in the
 *Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 *<blockquote>
 *
 *<p>This was the main event-handling interface for SAX1; in
 *SAX2, it has been replaced by `contentHandler` interface, which includes Namespace support.
@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.DocumentHandler#startElement startElement
@see org.xml.sax.helpers.AttributeListImpl AttributeListImpl
*/
* ContentHandler}, which provides Namespace support and reporting
* of skipped entities. This interface is included in SAX2 only
* to support legacy SAX1 applications.</p>
*
* &lt;p&gt;The order of events in this interface is very important, and
* mirrors the order of information in the document itself. For
* example, all of an element's content (character data, processing
* instructions, and/or subelements) will appear, in order, between
* the startElement event and the corresponding endElement event.&lt;/p&gt;
*
* &lt;p&gt;Application writers who do not want to implement the entire
* interface can derive a class from HandlerBase, which implements
* the default functionality; parser writers can instantiate
* HandlerBase to obtain a default handler. The application can find
* the location of any document event using the Locator interface
* supplied by the Parser through the setDocumentLocator method.&lt;/p&gt;
*
* @deprecated This interface has been replaced by the SAX2
* interface, which includes Namespace support.
* @since SAX 1.0
* @author David Megginson,
* &lt;a href="mailto:sax@megginson.com">sax@megginson.com</a>&lt;/a&gt;
* @version 2.0
* @see org.xml.sax.Parser#setDocumentHandler
* @see org.xml.sax.Locator
* @see org.xml.sax.HandlerBase
*/

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/xml/sax/DocumentHandler.java
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// NO WARRANTY! This class is in the Public Domain.
/**
* Factory for creating an XML reader.
*
* &lt;blockquote&gt;
* &lt;em&gt;This module, both source code and documentation, is in the
* Public Domain, and comes with &lt;strong&gt;NO WARRANTY&lt;/strong&gt;.&lt;/em&gt
* See &lt;a href=http://www.saxproject.org&gt;http://www.saxproject.org&lt;/a&gt;
* for further information.
* &lt;/blockquote&gt;
*
* &lt;p&gt;This class contains static methods for creating an XML reader
* from an explicit class name, or based on runtime defaults:&lt;/p&gt;
*
try {
   XMLReader myReader = XMLReaderFactory.createXMLReader();
} catch (SAXException e) {
   System.err.println(e.getMessage());
}

Note to Distributions bundled with parsers:
You should modify the implementation of the no-arguments
createXMLReader to handle cases where the external
configuration mechanisms aren't set up. That method should do its
best to return a parser when one is in the class path, even when
nothing bound its class name to org.xml.sax.driver so
those configuration mechanisms would see it.

@since SAX 2.0
@author David Megginson, David Brownell
@version 2.0r2pre3

This class encapsulates the logic of Namespace processing:
it tracks the declarations currently in force for each context
and automatically processes qualified XML 1.0 names into their
Namespace parts; it can also be used in reverse for generating
XML 1.0 from Namespaces.

Namespace support objects are reusable, but the reset method
must be invoked between each session.

Here is a simple session:

String parts[] = new String[3];
* NamespaceSupport support = new NamespaceSupport();
*  
*  support.pushContext();
*  support.declarePrefix("", "http://www.w3.org/1999/xhtml");
*  support.declarePrefix("dc", "http://www.purl.org/dc#");
*  
*  String parts[] = support.processName("p", parts, false);
*  System.out.println("Namespace URI: " + parts[0]);
*  System.out.println("Local name: " + parts[1]);
*  System.out.println("Raw name: " + parts[2]);
*  
*  String parts[] = support.processName("dc:title", parts, false);
*  System.out.println("Namespace URI: " + parts[0]);
*  System.out.println("Local name: " + parts[1]);
*  System.out.println("Raw name: " + parts[2]);
*  
*  support.popContext();
*  */

* Note that this class is optimized for the use case where most
* elements do not contain Namespace declarations: if the same
* prefix/URI mapping is repeated for each context (for example), this
* class will be somewhat less efficient. */
*
* @since SAX 2.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
* jar/org/xml/sax/helpers/NamespaceSupport.java

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// NO WARRANTY! This class is in the public domain.
/**
* Default base class for SAX2 event handlers.
* *
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* </blockquote>
* *
* <p>This class is available as a convenience base class for SAX2
* applications: it provides default implementations for all of the
* callbacks in the four core SAX2 handler classes:</p>
* <ul>
*   * <li>{@link org.xml.sax.EntityResolver EntityResolver}</li>
*   * <li>{@link org.xml.sax.DTDHandler DTDHandler}</li>
*   * <li>{@link org.xml.sax.ContentHandler ContentHandler}</li>
*   * <li>{@link org.xml.sax.ErrorHandler ErrorHandler}</li>
* </ul>

* <p>Application writers can extend this class when they need to
* implement only part of an interface; parser writers can
* instantiate this class to provide default handlers when the
* application has not supplied its own.</p>

* <p>This class replaces the deprecated SAX1</p>
* { @link org.xml.sax.HandlerBase HandlerBase } class.</p>

* @since SAX 2.0
* @author David Megginson,
*         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.EntityResolver
* @see org.xml.sax.DTDHandler
* @see org.xml.sax.ContentHandler
* @see org.xml.sax.ErrorHandler
*/

---

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/**
 * Encapsulate an XML parse error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This exception will include information for locating the error
 * in the original XML document. Note that although the application
 * will receive a SAXParseException as the argument to the handlers
 * in the { @link org.xml.sax.ErrorHandler ErrorHandler } interface,
 * the application is not actually required to throw the exception;
 * instead, it can simply read the information in it and take a
 * different action.</p>
 *
 * <p>Since this exception is a subclass of { @link org.xml.sax.SAXException
 * SAXException }, it inherits the ability to wrap another exception.</p>
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* @version 2.0
* @see org.xml.sax.SAXException
* @see org.xml.sax.Locator
* @see org.xml.sax.ErrorHandler
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/SAXParseException.java
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*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/RangeException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/CharacterData.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/NamedNodeMap.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/Event.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/Notation.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/DocumentEvent.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventTarget.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/EventException.java
Basic interface for resolving entities.

This module, both source code and documentation, is in the Public Domain, and comes with **NO WARRANTY**.

If a SAX application needs to implement customized handling for external entities, it must implement this interface and register an instance with the SAX driver using the `org.xml.sax.XMLReader#setEntityResolver setEntityResolver` method.

The XML reader will then allow the application to intercept any external entities (including the external DTD subset and external parameter entities, if any) before including them.

Many SAX applications will not need to implement this interface, but it will be especially useful for applications that build
* XML documents from databases or other specialised input sources,
* or for applications that use URI types other than URLs.</p>
*
* <p>The following resolver would provide the application
* with a special character stream for the entity with the system
* identifier "http://www.myhost.com/today":</p>
*
* <pre>
* import org.xml.sax.EntityResolver;
* import org.xml.sax.InputSource;
*
* public class MyResolver implements EntityResolver {
*   public InputSource resolveEntity (String publicId, String systemId)
*   {
*     if (systemId.equals("http://www.myhost.com/today")) {
*       // return a special input source
*       MyReader reader = new MyReader();
*       return new InputSource(reader);
*     } else {
*       // use the default behaviour
*       return null;
*     }
*   }
* }
* }
* </pre>
*
* <p>The application can also use this interface to redirect system
* identifiers to local URIs or to look up replacements in a catalog
* (possibly by using the public identifier).</p>
*
* @since SAX 1.0
* @author David Megginson,
* <a href="mailto:sax@megginson.com">sax@megginson.com</a></p>
* @version 2.0
* @see org.xml.sax.Parser#setEntityResolver
* @see org.xml.sax.InputSource
*/
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 * PURPOSE. See W3C License http://www.w3.org/Consortium/Legal/ for more
 * details.
 */

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLHtmlElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLParagraphElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLBodyElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLBRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLLabelElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLDocument.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLTableRowElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLSelectElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLMenuElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLInputElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLHeadingElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLDirectoryElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLTableCellElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/html/HTMLHeadElement.java

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jar/org/w3c/dom/html/HTMLBaseFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLULListElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFrameSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLStyleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLHRElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLOptionElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFieldSetElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLIElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLLinkElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLParamElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableColElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTitleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLIFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDivElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLImageElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLCollection.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTextAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLELIElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTableColElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLTitleElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLButtonElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLAreaElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLFontElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLIFrameElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLDivElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
jar/org/w3c/dom/html/HTMLImageElement.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
/**
 * Provide an optional convenience implementation of Locator.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class is available mainly for application writers, who
 * can use it to make a persistent snapshot of a locator at any
 * point during a document parse:
 *
 * <![CDATA[
 * Locator locator;
 * Locator startloc;
 * ]]>
 */

No license file was found, but licenses were detected in source scan.
* public void setLocator (Locator locator)
  *
  *  // note the locator
  *  this.locator = locator;
  *
* public void startDocument ()
  *
  *  // save the location of the start of the document
  *  // for future use.
  *  Locator startloc = new LocatorImpl(locator);
  *
* </pre>
* 
* <p>Normally, parser writers will not use this class, since it
* is more efficient to provide location information only when
* requested, rather than constantly updating a Locator object.</p>
* 
* * @since SAX 1.0
* * @author David Megginson,
* *       <a href="mailto:sax@megginson.com">sax@megginson.com</a>
* * @version 2.0
* * @see org.xml.sax.Locator Locator
*/

Found in path(s):
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/xml/sax/helpers/LocatorImpl.java
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  jar/javax/xml/parsers/ParserConfigurationException.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/FactoryFinder.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/FactoryConfigurationError.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/javax/xml/parsers/SAXParserFactory.java
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
// NO WARRANTY! This class is in the Public Domain.
/**
 * Interface for reading an XML document using callbacks.
 *
 * @since SAX 2.0
 * @author David Megginson,
 */

<em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
A single input source for an XML entity.

This class allows a SAX application to encapsulate information about an input source in a single object, which may include:
- a public identifier, a system identifier, a byte stream (possibly with a specified encoding), and/or a character stream.

There are two places that the application will deliver this input source to the parser: as the argument to the Parser.parse method, or as the return value of the EntityResolver.resolveEntity method.

The SAX parser will use the InputSource object to determine how to read XML input. If there is a character stream available, the parser will read that stream directly; if not, the parser will use a byte stream, if available; if neither a character stream nor a byte stream is available, the parser will attempt to open a URI connection to the resource identified by the system identifier.

An InputSource object belongs to the application: the SAX parser shall never modify it in any way (it may modify a copy if necessary).
Exception class for an unsupported operation.

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An XMLReader will throw this exception when it recognizes a feature or property identifier, but cannot perform the requested operation (setting a state or value). Other SAX2 applications and extensions may use this class for similar purposes.

@since SAX 2.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXNotRecognizedException

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jar/org/xml/sax/helpers/SecuritySupport.java

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* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/traversal/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/ranges/package.html
* /opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/w3c/dom/events/package.html

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/**
 * Adapt a SAX1 Parser as a SAX2 XMLReader.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.<em>
 * </blockquote>
 *
 * This class wraps a SAX1 [@link org.xml.sax.Parser Parser]
 * and makes it act as a SAX2 [@link org.xml.sax.XMLReader XMLReader],
 * with feature, property, and Namespace support. Note
 * that it is not possible to report [@link org.xml.sax.ContentHandler#skippedEntity
 * skippedEntity] events, since SAX1 does not make that information available.</p>
 *
 * This adapter does not test for duplicate Namespace-qualified
 * attribute names.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.helpers.XMLReaderAdapter
 * @see org.xml.sax.XMLReader
 * @see org.xml.sax.Parser
 */
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
This wrapper class is used only when Namespace support is disabled -- it provides pretty much a direct mapping from SAX1 to SAX2, except that names and types are interned whenever requested.

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// NO WARRANTY! This class is in the public domain.

This class provides a default implementation of the SAX2 Attributes interface, with the addition of manipulators so that the list can be modified or reused.

This class replaces the now-deprecated SAX1 AttributeListImpl interface; in addition to supporting the updated Attributes class, it also includes a much more efficient implementation using a single array rather than a set of Vectors.

@since SAX 2.0
@author David Megginson
@version 2.0.1 (sax2r2)
// NO WARRANTY! This class is in the Public Domain.
/**
 * Create a new instance of a class by name.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 *
 * This class contains a static method for creating an instance of a
 * class from an explicit class name. It tries to use the thread's context
 * ClassLoader if possible and falls back to using
 * Class.forName(String). It also takes into account JDK 1.2+'s
 * AccessController mechanism for performing its actions. </p>
 *
 * This code is designed to run on JDK version 1.1 and later and compile
 * on versions of Java 2 and later. </p>
 *
 * @author Edwin Goei, David Brownell, Neil Graham
 * @version $Id: NewInstance.java,v 1.2 2002/08/26 23:55:45 neilg Exp $
 */

/**
 * Encapsulate a general SAX error or warning.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * This class can contain basic error or warning information from
 * either the XML parser or the application: a parser writer or
 * application writer can subclass it to provide additional
 * functionality. SAX handlers may throw this exception or
 * any exception subclassed from it. </p>
 *
If the application needs to pass through other types of exceptions, it must wrap those exceptions in a SAXException or an exception derived from a SAXException.</p>

If the parser or application needs to include information about a specific location in an XML document, it should use the SAXParseException subclass.

@since SAX 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>
@version 2.0
@see org.xml.sax.SAXParseException

/**
 * Exception class for an unrecognized identifier.
 *
 * <blockquote>
 * <em>This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXNotRecognizedException
 */

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/**
 * Exception class for an unrecognized identifier.
 *
 * This module, both source code and documentation, is in the Public Domain, and comes with <strong>NO WARRANTY</strong>.
 *
 * An XMLReader will throw this exception when it finds an unrecognized feature or property identifier; SAX applications and extensions may use this class for other, similar purposes.
 *
 * @since SAX 2.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.SAXNotRecognizedException
 */

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 */
/**
 * Create a new <code>DOMBuilder</code>. The newly constructed parser may
 * then be configured by means of its <code>setFeature</code> method,
 * and used to parse documents by means of its <code>parse</code>
 * method.
 * @param mode  The <code>mode</code> argument is either
 *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
 *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
 *   <code>DOMBuilder</code> that is created will operate in synchronous
 *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
 *   <code>DOMBuilder</code> 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 <code>Document</code> using the
 *   newly created <code>DOMBuilder</code>. Note that no lexical
 *   checking is done on the absolute URI. In order to create a
 *   <code>DOMBuilder</code> for any kind of schema types (i.e. the
 *   DOMBuilder will be free to use any schema found), use the value
 *   <code>null</code>. For W3C XML Schema, applications must use the
 *   value <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD
 *   applications must use the value
 *   <code>http://www.w3.org/TR/REC-xml"</code>. 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 <code>DOMBuilder</code> object. This
 *   <code>DOMBuilder</code> is either synchronous or asynchronous
 *   depending on the value of the <code>mode</code> argument. By
 *   default, the newly created <code>DOMBuilder</code> does not contain
 *   a <code>DOMErrorHandler</code>, i.e. the value of the
 *   <code>errorHandler</code> is <code>null</code>. However,
 *   implementations may provide a default error handler at creation
* time. In that case, the initial value of the
* <code>errorHandler</code> attribute on the new created
* <code>DOMBuilder</code> 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/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-
  jar/org/w3c/dom/ls/DOMImplementationLS.java
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/**
 * Basic interface for SAX (Simple API for XML) parsers.
 *
 * <blockquote>
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 * </blockquote>
 *
 * This was the main event supplier interface for SAX1; it has
 * been replaced in SAX2 by {@link org.xml.sax.XMLReader XMLReader},
 * which includes Namespace support and sophisticated configurability
 * and extensibility. </p>
 *
 * All SAX1 parsers must implement this basic interface: it allows
 * applications to register handlers for different types of events
 * and to initiate a parse from a URI, or a character stream.</p>
 *
 * All SAX1 parsers must also implement a zero-argument constructor
 * (though other constructors are also allowed). </p>
 *
 * SAX1 parsers are reusable but not re-entrant: the application
 * may reuse a parser object (possibly with a different input source)
 * once the first parse has completed successfully, but it may not
 * invoke the parse() methods recursively within a parse. </p>
 *
 * @deprecated This interface has been replaced by the SAX2
 * {@link org.xml.sax.XMLReader XMLReader}
 * interface, which includes Namespace support.
 * @since SAX 1.0
 * @author David Megginson,
 * <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.EntityResolver
 * @see org.xml.sax.DTDHandler
* @see org.xml.sax.DocumentHandler
* @see org.xml.sax.ErrorHandler
* @see org.xml.sax.HandlerBase
* @see org.xml.sax.InputSource
*/

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/**
 * SAX2 extension handler for DTD declaration events.
 *
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 * </blockquote>
 *
 * This is an optional extension handler for SAX2 to provide
 * information about DTD declarations in an XML document. XML
 * readers are not required to support this handler, and this
 * handler is not included in the core SAX2 distribution.</p>
 *
 * Note that data-related DTD declarations (unparsed entities and
 * notations) are already reported through the {@link
 * org.xml.sax.DTDHandler DTDHandler} interface.</p>
 *
 * If you are using the declaration handler together with a lexical
 * handler, all of the events will occur between the
 * [@link org.xml.sax.ext.LexicalHandler#startDTD startDTD] and the
 * [@link org.xml.sax.ext.LexicalHandler#endDTD endDTD] events.</p>
 *
 * To set the DeclHandler for an XML reader, use the
 * [@link org.xml.sax.XMLReader#setProperty setProperty] method
 * with the propertyId "http://xml.org/sax/properties/declaration-handler".
 * If the reader does not support declaration events, it will throw a
 *
 * or a
 * [@link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException]
 * when you attempt to register the handler.</p>
 *
 * @since 1.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 1.0
 * @see org.xml.sax.XMLReader
 */
/**
 * Java-specific class for dynamically loading SAX parsers.
 * 
 * <blockquote>
 * <em>This module, both source code and documentation, is in the
 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
 * for further information.
 * </blockquote>
 * 
 * <p><strong>Note:</strong> This class is designed to work with the now-deprecated
 * SAX1 [@link org.xml.sax.Parser Parser] class. SAX2 applications should use
 * [@link org.xml.sax.helpers.XMLReaderFactory XMLReaderFactory] instead.</p>
 * 
 * ParserFactory is not part of the platform-independent definition
 * of SAX; it is an additional convenience class designed
 * specifically for Java XML application writers. SAX applications
 * can use the static methods in this class to allocate a SAX parser
 * dynamically at run-time based either on the value of the
 * `org.xml.sax.parser' system property or on a string containing the class
 * name.</p>
 * 
 * <p>Note that the application still requires an XML parser that
 * implements SAX1.</p>
 * 
 * @deprecated This class works with the deprecated
 * { [@link org.xml.sax.Parser Parser] 
 * interface.
 * @since SAX 1.0
 * @author David Megginson
 * @version 2.0r2pre3
 */

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/**
 * Adapt a SAX2 XMLReader as a SAX1 Parser.
 *
 * <blockquote>
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 * Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
 * </blockquote>
 *
 * <p>This class wraps a SAX2 [@link org.xml.sax.XMLReader XMLReader]
 * and makes it act as a SAX1 [@link org.xml.sax.Parser Parser]. The XMLReader
 * must support a true value for the
 * http://xml.org/sax/features/namespace-prefixes property or parsing will fail
 * with a [@link org.xml.sax.SAXException SAXException]; if the XMLReader
 * supports a false value for the http://xml.org/sax/features/namespaces
 * property, that will also be used to improve efficiency.</p>
 *
 * @since SAX 2.0
 * @author David Megginson,
 *         <a href="mailto:sax@megginson.com">sax@megginson.com</a>
 * @version 2.0
 * @see org.xml.sax.Parser
 * @see org.xml.sax.XMLReader
 */

Found in path(s):
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 * Receive notification of the logical content of a document.
 *
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 * </blockquote>
 *
This is the main interface that most SAX applications implement: if the application needs to be informed of basic parsing events, it implements this interface and registers an instance with the SAX parser using the `setContentHandler` method. The parser uses the instance to report basic document-related events like the start and end of elements and character data.

The order of events in this interface is very important, and mirrors the order of information in the document itself. For example, all of an element's content (character data, processing instructions, and/or subelements) will appear, in order, between the startElement event and the corresponding endElement event.

This interface is similar to the now-deprecated SAX 1.0 DocumentHandler interface, but it adds support for Namespaces and for reporting skipped entities (in non-validating XML processors).

Implementors should note that there is also a Java class `ContentHandler` in the java.net package; that means that it's probably a bad idea to do:

```java
import java.net.*;
import org.xml.sax.*;
```

In fact, "import ...*" is usually a sign of sloppy programming anyway, so the user should consider this a feature rather than a bug.

@since SAX 2.0
@version 2.0
@author David Megginson,
@see org.xml.sax.XMLReader
@see org.xml.sax.DTDHandler
@see org.xml.sax.ErrorHandler

// Public Domain: no warranty.
/**
 * SAX2 extension handler for lexical events.
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This is an optional extension handler for SAX2 to provide lexical information about an XML document, such as comments and CDATA section boundaries; XML readers are not required to support this handler, and it is not part of the core SAX2 distribution.

The events in the lexical handler apply to the entire document, not just to the document element, and all lexical handler events must appear between the content handler's startDocument and endDocument events.

To set the LexicalHandler for an XML reader, use the @link org.xml.sax.XMLReader#setProperty setProperty method with the propertyId "http://xml.org/sax/properties/lexical-handler".

If the reader does not support lexical events, it will throw a @link org.xml.sax.SAXNotRecognizedException SAXNotRecognizedException or a @link org.xml.sax.SAXNotSupportedException SAXNotSupportedException when you attempt to register the handler.

@since 1.0
@version 1.0
@author David Megginson,
<a href="mailto:sax@megginson.com">sax@megginson.com</a>

Found in path(s):
/opt/cola/permits/1150916854_1617719483.11/0/xml-apis-2-0-2-sources-2-jar/org/xml/sax/ext/LexicalHandler.java
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1.628 contextlib2 21.6.0

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

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* /opt/cola/permits/1258889380_1643121798.98/0/saslprep-1-1-sources-jar/com/ongres/saslprep/SaslPrep.java

1.630 iputils 20210722-r0

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--activemq-web-console

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* /opt/cola/permits/1313350751_1650565871.15/0/netty-transport-sctp-4-1-75-final-sources-2-jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1313350751_1650565871.15/0/netty-transport-sctp-4-1-75-final-sources-2-jar/com/sun/nio/sctp/SctpStandardSocketOptions.java

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* /opt/cola/permits/1313350751_1650565871.15/0/netty-transport-sctp-4-1-75-final-sources-2.jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java

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1.637 pcollections 2.1.2

1.638 ncurses 6.2_p20200523-r0
1.638.1 Available under license:
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/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * [@link #locateSource detected] during response rendering. Users can either specify
 * a specific entry in the model via the [@link #setSourceKey sourceKey] property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See [@link #getSourceTypes() here]
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure [@link #setOutputProperties output properties]
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */

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Found in path(s):
* /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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*/
/**
* Create a new <code>LSParser</code>. The newly constructed parser may
* then be configured by means of its <code>DOMConfiguration</code>
* object, and used to parse documents by means of its <code>parse</code>
* method.

* @param mode  The <code>mode</code> argument is either
* <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
* <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in synchronous
* mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
* <code>LSParser</code> 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 <code>Document</code> using the
* newly created <code>LSParser</code>. Note that no lexical checking
* is done on the absolute URI. In order to create a
* <code>LSParser</code> for any kind of schema types (i.e. the
* LSParser will be free to use any schema found), use the value
* <code>null</code>.

* @return  The newly created <code>LSParser</code> object. This
* <code>LSParser</code> is either synchronous or asynchronous
* depending on the value of the <code>mode</code> argument.

* @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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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.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.
 */

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/events/UIEventImpl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/dom/WMLTrElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/iml/validation/ConfigurableValidationState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xml/serialize/ElementState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xml/serialize/ObjectFactory.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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1.643 spring-context 2.5.6.SEC02

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The textbook (containing a proof that the shuffle is uniformly random) is
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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>
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/io/PatternFilenameFilter.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/Table.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/TreeBasedTable.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/TreeBasedTable.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/FilteredEntryMultimap.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collect/FilteringMultimap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/collection/AllEqualOrdering.java

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  jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ListeningExecutorService.java
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  jar/com/datastax/oss/driver/shaded/guava/common/base/Strings.java
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  jar/com/datastax/oss/driver/shaded/guava/common/utils/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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  jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/ForwardingBlockingQueue.java
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  jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Monitor.java
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  jar/com/datastax/oss/driver/shaded/guava/common/net/package-info.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
  jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/Atomics.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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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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jar/com/datastax/oss/driver/shaded/guava/common/escape/Platform.java
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jar/com/datastax/oss/driver/shaded/guava/common/io/LineProcessor.java
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/util/concurrent/AbstractExecutionThreadService.java
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jar/com/datastax/oss/driver/shaded/guava/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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jar/com/datastax/oss/driver/shaded/guava/common/collect/MapMaker.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/AbstractExecutionThreadService.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collect/DenseImmutableTable.java
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jar/com/datastax/oss/driver/shaded/guava/common/cache/CacheBuilder.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
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jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeResolver.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-
jar/com/datastax/oss/driver/shaded/guava/common/collection/CacheBuilder.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
 */

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/datastax/oss/driver/shaded/guava/common/reflect/TypeVisitor.java

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*/  
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/math/Quantiles.java
* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources.jar/com/datastax/oss/driver/shaded/guava/common/eventbus/ListenerCallQueue.java

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* /opt/cola/permits/1199743947_1630577692.09/0/java-driver-shaded-guava-25-1-jre-graal-sub-1-sources-jar/com/databasess/oss/driver/shaded/guava/common/collect/comparisonChain.java
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 */

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 * { @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.
*/

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jar/com/ctc/wstx/evt/DefaultEventAllocator.java
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1.661 stax 3.1.4

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingReader.java
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 * /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/dom/DOMWrappingWriter.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/Base64DecoderBase.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/typed/ValueEncoderFactory.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/typed/Base64Variant.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/typed/Base64Variants.java
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jar/org/codehaus/stax2/XMLStreamReader2.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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jar/org/codehaus/stax2/ri/typed/ValueDecoderFactory.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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1.662 byte-buddy 1.11.22

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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ByteVector.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ClassTooLargeException.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/ModuleWriter.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/MethodWriter.java
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* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135907460_1613628459.33/0/asm-7-3-1-sources-2-jar/org/objectweb/asm/Frame.java
1.672 open-ldap 2.4.58-r0

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1.682 idna 2.9

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```python
import io, sys
from setuptools import setup

def main():
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
        ]
    }

    setup(**arguments)
```

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setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

1.683 hazelcast 5.1.1

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com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(https://github.com/real-logic/Agrona).


The class classloading.ThreadLocalLeakTestUtils contains code originating from the Tomcat project (https://github.com/apache/tomcat).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating from minimal-json project (https://github.com/ralfstx/minimal-json).


The packages:
com.hazelcast.sql
com.hazelcast.jet.sql

contain code originating from the Apache Calcite (https://github.com/apache/calcite)

The class com.hazelcast.jet.kafka.impl.ResumeTransactionUtil contains code derived from the Apache Flink project.


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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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# Contributions to the urllib3 project

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* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
* Allowed to skip SSL hostname verification
* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with ‘cryptography’ dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.
* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to `ca_cert` file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when `amt=None`.
  * Added `length_remaining` to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don’t retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix `util.selectors._fileobj_to_fd` to accept `long`.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to `contrib.securetransport`

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add `HTTPResponse.geturl` method to provide `urlib2.urlopen().geturl()` behavior
* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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* /opt/cola/permits/1231335344_1637640927.1/0/gson-2-8-9-sources-jar/com/google/gson/JsonSyntaxException.java

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* /opt/cola/permits/1313350853_1650565885.35/0/netty-transport-rxtx-4.1-75-final-sources-2.jar/io/netty/channel/rxtx/RxtxChannel.java
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* /opt/cola/permits/1313350853_1650565885.35/0/netty-transport-rxtx-4.1-75-final-sources-2.jar/io/netty/channel/rxtx/RxtxDeviceAddress.java

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* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/IteratorUtils.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/propertydescriptor/SelfPropertyDescriptor.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/event/DozerEventType.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/util/ReflectionUtils.java
jar/org/dozer/loader/xml/XMLParser.java
* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/config/GlobalSettings.java
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* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/jmx/DozerStatisticsControllerMBean.java
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* /opt/cola/permits/1349880201_1655976799.9851403/0/dozer-5-5-1-sources-1-jar/org/dozer/loader/api/TypeDefinition.java
1.694 cglib 3.2.5

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SNMP4J 2 - Integer32.java

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources.jar/org/antlr/gunit/swingui/model/TestCaseOutputStdOut.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources.jar/org/antlr/gunit/swingui/TestCaseEditController.java
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/**
 * Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@outputFile.imports() ::= <<
<@super.imports()>
import org.antlr.stringtemplate.*;
import org.antlr.stringtemplate.language.*;
import java.util.HashMap;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
public StringTemplate st;
public Object getTemplate() { return st; }
public String toString() { return st==null?null:st.toString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib =
    new StringTemplateGroup("<name>Templates", AngleBracketTemplateLexer.class);

public void setTemplateLib(StringTemplateGroup templateLib) {
    this.templateLib = templateLib;
}
public StringTemplateGroup getTemplateLib() {
    return templateLib;
}
/** allows convenient multi-value initialization:
 * "new STAttrMap().put(...).put("
 */
@.SuppressWarnings("serial")
public static class STAttrMap extends HashMap<String, Object> {
    public STAttrMap put(String attrName, Object value) {
        super.put(attrName, value);
        return this;
    }
}
>>
/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, {<label>.getTemplate()})>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
  alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()><endif>
} <else>
  alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>
}<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.getTokenStream()).replace(
  input.getTreeAdaptor().getTokenStartIndex(retval.start),
  input.getTreeAdaptor().getTokenStopIndex(retval.start),
  retval.st);
<else>
((TokenRewriteStream)input).replace(
  (Token)retval.start).getTokenIndex(),
  input.LT(-1).getTokenIndex(),
  retval.st);
<endif>
>>

rewriteTemplateAlt(alt) ::= <<
// <alt.description>
<if(alt.pred)>
if (<alt.pred>) {
  retval.st = <alt.alt>;
}<\n>
<else>
  {
  retval.st = <alt.alt>;
  }<\n>
<endif>
>>
rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
* Set the value of the rule's template *after* having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name, args) ::= <%
templateLib.getInstanceOf("<name>"<if(args)>
  new STAttrMap(){a | .put("<a.name>", <a.value>)})>
<endif>)
%

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <%
templateLib.getInstanceOf(<expr><if(args)>
  new STAttrMap(){a | .put("<a.name>", <a.value>)})>
<endif>)
%

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(templateLib, "<template>"<if(args)>
  new STAttrMap(){a | .put("<a.name>", <a.value>)})>
<endif>)
%

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has {%st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
({st}).setAttribute("<attrName>",<expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib, <stringExpr>)
>>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/ST.stg
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 */

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label  (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

@rule.setErrorReturnValue() ::= <<
  retval.Tree = (<ASTLabelType>) adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
*/
<! System.out.WriteLine("<ruleName> returns "+(CommonTree)retval.tree.toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred>)
<if(backtracking)><
>if (state.backtracking == 0) {<endif>
<
><label>_tree = <createNodeFromToken(...)>
;<
>adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>\n} <endif>
<endif>
<
>%

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)»

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred>)
<if(backtracking)><
>if (<actions.(actionScope).synpredgate>) {<endif>
<
><label>_tree = <createNodeFromToken(...)>
;<
>root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>\n} <endif>
<endif>
<
>%

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
tokenRefBang(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
tokenRefRuleRoot(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>
SET AST

the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s, label, elementIndex, postmatchCode, terminalOptions={}) ::= <<
    <super.matchSet(postmatchCode={<if(!ruleDescriptor.isSynPred)><if(backtracking)>if
        (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>, root_0);<endif> }, ...)>
>>

matchRuleBlockSet(s, label, elementIndex, postmatchCode, treeLevel="0", terminalOptions={}) ::= <<
    <matchSet(...)>>
>>

matchSetBang(s, label, elementIndex, postmatchCode, terminalOptions={}) ::= "<super.matchSet(...)>>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s, label, elementIndex, debug, terminalOptions={}) ::= <<
    <if(label)>
    <label>=(<labelType>)input.LT(1);
    <endif>
    <super.matchSet(postmatchCode={<if(!ruleDescriptor.isSynPred)><if(backtracking)>if
        (<actions.(actionScope).synpredgate>) <endif>root_0 =
        (<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);<endif> }, ...)>
>>

RULE REF AST

/** rule when output=AST */
ruleRef(rule, label, elementIndex, args, scope) ::= <%
    <super.ruleRef(...)>
    <if(!ruleDescriptor.isSynPred)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
    <endif>
%>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <
<super.ruleRef(...)>;
<if(backtracking)>if ( (actions.(actionScope).synpredgate) ) {<endif>
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
}<if(backtracking)>}<endif>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <
<ruleRef(...)>;
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <
<ruleRefBang(...)>;
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <
<ruleRefRuleRoot(...)>;
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={}) ::= <
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if ( (actions.(actionScope).synpredgate) ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
<endif>

wildcardBang(label,elementIndex) ::= "<super.wildcard(token=[],....)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if ( (actions.(actionScope).synpredgate) ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>

createNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node>({<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>}
<else>
(<ASTLabelType>)adaptor.Create({<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>}
<endif>
%

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if ({<actions.(actionScope).synpredgate}> {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)>}<endif>
>>

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 * Jim Idle jimi|hereisanat|idle|dotgoeshere|ws.
 * If it causes the destruction of the Universe, it will be pretty cool so long as
 * I am in a different one at the time.
 */
cTypeInitMap ::= [
    "int" : "0",              // Integers     start out being 0
    "long" : "0",             // Longs        start out being 0
    "float" : "0.0",          // Floats       start out being 0
    "double" : "0.0",         // Doubles      start out being 0
    "ANTLR3_BOOLEAN" : "ANTLR3_FALSE",   // Booleans     start out being Antlr C for false
    "byte" : "0",             // Bytes        start out being 0
    "short" : "0",            // Shorts       start out being 0
    "char" : "0"              // Chars        start out being 0
]

leadIn(type) ::= <<
    /**<
     * This <type> file was generated by $ANTLR version <ANTLRVersion>
     * - From the grammar source file : <fileName>
     * - On : <generatedTimestamp>
     * - for the lexer : <name>Lexer
     */
    /**<
     * for the parser : <name>Parser
     */
    /**<
     * for the tree parser : <name>TreeParser
     */
    * Editing it, at least manually, is not wise.
    */
C language generator and runtime by Jim Idle, jimi|hereisanat|idle|dotgoeshere|ws.
*  
>>

/** The overall file structure of a recognizer; stores methods for rules  
* and cyclic DFAs plus support code.  
*/
outputFile( LEXER,  
PARSER,  
TREE_PARSER,  
actionScope,  
actions,  
docComment,  
recognizer,  
name,  
tokens,  
tokenNames,  
rules,  
cyclicDFAs,  
bitset,  
buildTemplate,  
buildAST,  
rewriteMode,  
profile,  
backtracking,  
synpreds,  
memoize,  
numRules,  
fileName,  
ANTLRVersion,  
generatedTimestamp,  
trace,  
scopes,  
superClass,  
literals  
) ::=  
<<  
</leadIn("C source")>  
*/

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// THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

#ifndef _<name>_H
#define _<name>_H

/* ====================================================================
 * This is what the grammar programmer asked us to put at the top of every file.
 */
<actions.(actionScope).header>
/* End of Header action. */
<actions.(actionScope).postinclude>
/* ----------------------------------------- */
<docComment>
/* String literals used by <name> that we must do things like MATCHS() with. */
/* C will normally just lay down 8 bit characters, and you can use L"xxx" to */
/* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so */
/* we perform this little trick of defining the literals as arrays of UINT32 */
/* and passing in the address of these. */
< literals: [ it | static ANTLR3_UCHAR lit_<i>[] = <it>; separator="\n" ] */
</docComment>
#endif
/* MACROS that hide the C interface implementations from the generated code, which makes it a little more understandable to the human eye. * I am very much against using C pre-processor macros for function calls and bits of code as you cannot see what is happening when single stepping in debuggers * and so on. The exception (in my book at least) is for generated code, where you are * not maintaining it, but may wish to read and understand it. If you single step it, you know that input() * hides some indirect calls, but is always referring to the input stream. This is * probably more readable than ctx->input->istream->input(snarfle0->blarg) and allows me to rejig * the runtime interfaces without changing the generated code too often, without * confusing the reader of the generated output, who may not wish to know the gory * details of the interface inheritance. */

#define CTX ctx

/* Aids in accessing scopes for grammar programmers */

#endif

#define SCOPE_TYPE(scope) p<name>_##scope##_SCOPE
#define SCOPE_STACK(scope) p<name>_##scope##Stack
#define SCOPE_TOP(scope) ctx->p<name>_##scope##Top
#define SCOPE_SIZE(scope) ctx->p<name>_##scope##Stack_limit
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))

<if(LEXER)>

/* Macros for accessing things in a lexer */

#undef LEXER
#undef RECOGNIZER
#undef RULEMEMO
#undef GETCHARINDEX
#undef GETLINE
#undef GETCHARPOSITIONINLINE
#undef EMIT
#undef EMITNEW
#undef MATCHC
#undef MATCHS
#undef MATCH RANGE
#undef LTOKEN
#undef HASFAILED

<endif>
#undef FAILEDFLAG
#undef INPUT
#undef STRSTREAM
#undef LA
#undef HASEXCEPTION
#undef EXCEPTION
#undef CONSTRUCTEX
#undef CONSUME
#undef LRECOVER
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef BACKTRACKING
#undef MATCHANY
#undef MEMOIZE
#undef HAVEPARSEDRULE
#undef GETTEXT
#undef INDEX
#undef SEEK
#undef PUSHSTREAM
#undef POPSTREAM
#undef SETTEXT
#undef SETTEXT8

#define LEXER ctx->pLexer
#define RECOGNIZER LEXER->rec
#define LEXSTATE RECOGNIZER->state
#define TOKSOURCE LEXSTATE->tokSource
#define GETCHARINDEX() LEXER->getCharIndex(LEXER)
#define GETLINE() LEXER->getLine(LEXER)
#define GETTEXT() LEXER->getText(LEXER)
#define GETCHARPOSITIONINLINE() LEXER->getCharPositionInLine(LEXER)
#define EMIT() LEXER->emit(LEXER)
#define EMITNEW(t) LEXER->emitNew(LEXER, t)
#define MATCHC(c) LEXER->matchc(LEXER, c)
#define MATCHS(s) LEXER->matchs(LEXER, s)
#define MATCHRANGE(c1,c2) LEXER->matchRange(LEXER, c1, c2)
#define MATCHANY() LEXER->matchAny(LEXER)
#define LTOKEN LEXSTATE->token
#define HASFAILED() (LEXSTATE->failed == ANTLR3_TRUE)
#define BACKTRACKINGLEXSTATE->backtracking
#define FAILEDFLAG LEXSTATE->failed
#define INPUT LEXER->input
#define STRSTREAM INPUT
#define ISTREAM INPUT
#define SEEK(n) ISTREAM->seek(n)
#define EOF_TOKEN LEXSTATE->tokSource->eofToken
#define HASEXCEPTION() (LEXSTATE->error == ANTLR3_TRUE)
#define EXCEPTIONLEXSTATE->exception
#define CONSTRUCTEX(RECOGNIZER->exConstruct(RECOGNIZER)
#define LRECOVER(LEXER->recover(LEXER)
#define MARK(ISTREAM->mark(I STREAM)
#define REWIND(m) ISTREAM->rewind(I STREAM, m)
#define REWINDLAST(I STREAM->rewindLast(I STREAM)
#define MEMOIZE(r, si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSERULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define DBGRECOGNIZER->debugger

/* If we have been told we can rely on the standard 8 bit or UTF16 input
* stream, then we can define our macros to use the direct pointers
* in the input object, which is much faster than indirect calls. This
* is really only significant to lexers with a lot of fragment rules (which
* do not place LA(1) in a temporary at the moment) and even then
* only if there is a lot of input (order of say 1M or so).
*/
#if defined(ANTLR3_INLINE_INPUT_8BIT) || defined(ANTLR3_INLINE_INPUT_UTF16)

#endif

/* 8 bit character set */

#define NEXTCHAR((pANTLR3_UINT8)(INPUT->nextChar))
#define DATAP((pANTLR3_UINT8)(INPUT->data))

#else
#define NEXTCHAR((pANTLR3_UINT16)(INPUT->nextChar))
#define DATAP((pANTLR3_UINT16)(INPUT->data))

#endif

#define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
(ANTLR3_UCHAR) (*(NEXTCHAR + n - 1)))
#define CONSUME() \
{ \
  if (NEXTCHAR \< (DATAP + INPUT->sizeBuf)) \
  \

{  
    // 
    INPUT->charPositionInLine++;  
    if  ((ANTLR3_UCHAR)(*NEXTCHAR) == INPUT->newlineChar)  
    {  
        // 
        INPUT->line++;  
        INPUT->charPositionInLine = 0;  
        INPUT->currentLine = (void *)(NEXTCHAR + 1);  
    }  
    INPUT->nextChar = (void *)(NEXTCHAR + 1);  
}  

#else  

// Pick up the input character by calling the input stream implementation.  
// 
#define CONSUME() INPUT->istream->consume(INPUT->istream)  
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)  

#endif  
<endif>  
<if(PARSER)>  
/* Macros for accessing things in the parser */  
*/  

#undef PARSER  
#undef RECOGNIZER  
#undef HAVEPARSEDRULE  
#undef MEMOIZE  
#undef INPUT  
#undef STRSTREAM  
#undef HASEXCEPTION  
#undef EXCEPTION  
#undef MATCHT  
#undef MATCHANYT  
#undef FOLLOWSTACK  
#undef FOLLOWPUSH  
#undef FOLLOWPOP  
#undef PRECOVER  
#undef PREREPORTERROR  
#undef LA  
#undef LT  
#undef CONSTRUCTEX  
#undef CONSUME  
#undef MARK  
#undef REWIND  
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSERctx->pParser
#define RECOGNIZERPARSER->rec
#define PSRSTATETORECOGNIZER->state
#define HAVEPARSEDRULE(r)RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE((ri,si))RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUTPARSER->tstream
#define STRSTREAMINPUT
#define ISTREAM
#define INDEX()ISTREAM->index(INPUT->istream)
#define HASEXCEPTION((PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs)RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT()RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACKPSRSTATE->following
#ifdef SKIP_FOLLOW_SETS
#define FOLLOWPUSH(x)
#define FOLLOWPOP()
#else
#define FOLLOWPUSH(x)FOLLOWSTACK->push(FOLLOWSTACK, ((void *)(&(x))), NULL)
#define FOLLOWPOP()FOLLOWSTACK->pop(FOLLOWSTACK)
#endif
#define PRECOVER()RECOGNIZER->recover(RECOGNIZER)
#define PREPERTERROR()RECOGNIZER->reportError(RECOGNIZER)
#define LA(n)INPUT->istream->_LA(ISTREAM, n)
#define LT(n)INPUT->_LT(INPUT, n)
#define CONSTRUCTEX(RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME()ISTREAM->consume(ISTREAM)
#define MARK()ISTREAM->mark(ISTREAM)
#define REWIND(m)ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST()ISTREAM->rewindLast(ISTREAM)
#define SEEK(n)ISTREAM->seek(ISTREAM, n)
#define PERRORRECOVERYPSRSTATE->errorRecovery
#define FAILEDFLAGPSRSTATE->failed
#define HASFAILED((FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKINGPSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s)RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-
> recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR ctx->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define DBGRECOGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser */
*/

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET
#undef RECOVERFROMMISMATCHEDELEMENT
#undef BACKTRACKING
#undef ADAPTOR
#undef RULEMEMO
#undef SEEK
#undef INDEX
#undef DBG

#define PARSER ctx->pTreeParser
#define RECOGNIZER PARSER->rec
#define PSRSTATE RECOGNIZER->state

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#define HAVEPARSERULE(r) RECOGNIZER-> alreadyParsedRule(RECOGNIZER, r)
#define INPUTPARSER-> ctnstream
#define ISTREAMINPUT-> tnstream-> istream
#define STRSTREAMINPUT-> tnstream
#define HASEXCEPTION()(PSRSTATE-> error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE-> exception
#define MATCHT(t, fs) RECOGNIZER-> match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER-> matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE-> following
#define FOLLOWPUSH(x) FOLLOWSTACK-> push(FOLLOWSTACK, (void *)(&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK-> pop(FOLLOWSTACK)
#define PRECOVER() RECOGNIZER-> recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER-> reportError(RECOGNIZER)
#define LA(n) ISTREAM-> _La(ISTREAM, n)
#define LT(n) INPUT-> tnstream-> _LT(INPUT-> tnstream, n)
#define CONSTRUCTEX() RECOGNIZER-> exConstruct(RECOGNIZER)
#define CONSTRUCTEX() RECOGNIZER-> exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM-> consume(ISTREAM)
#define MARK() ISTREAM-> mark(ISTREAM)
#define REWIND(m) ISTREAM-> rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM-> rewindLast(ISTREAM)
#define PERRORRECOVERY PSRSTATE-> errorRecovery
#define FAILEDFLAG PSRSTATE-> failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE-> backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER-> recoverFromMismatchedSet(RECOGNIZER, s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-> recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR INPUT-> adaptor
#define RULEMEMOPSRSTATE-> ruleMemo
#define SEEK(n) ISTREAM-> seek(ISTREAM, n)
#define INDEX() ISTREAM-> index(ISTREAM)
#define DBGRECOGNIZER-> debugger

#define TOKTEXT(tok, txt) tok, (pANTLR3_UINT8) txt

/* The 4 tokens defined below may well clash with your own #defines or token types. If so
   then for the present you must use different names for your defines as these are hard coded
   in the code generator. It would be better not to use such names internally, and maybe
   we can change this in a forthcoming release. I deliberately do not #undef these
   here as this will at least give you a redefined error somewhere if they clash. */
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
```c
#define INVALID ANTLR3_TOKEN_INVALID

/* =============================================================================
 * Functions to create and destroy scopes. First come the rule scopes, followed
 * by the global declared scopes.
 */
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>  
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>  
<endif>}>  
<recognizer.scopes:{it | <if(it.isDynamicGlobalScope)>  
<globalAttributeScopeFuncDecl(it)>  
<globalAttributeScopeFuncs(it)>  
<endif>}>  

/* =============================================================================
 * Start of recognizer
 */
<recognizer>

/* End of code
 */

>>
headerFileExtension() ::= ".h"

headerFile( LEXER,  
PARSER,  
TREE_PARSER,  
actionScope,  
actions,  
docComment,  
recognizer,  
name,  
tokens,  
tokenNames,  
rules,  
cyclicDFAs,  
bitsets,  
buildTemplate,  
buildAST,  
```
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.

* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.

* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().

* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.

* The methods in p<name> are as follows:

* * <rules:{r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)> p<name>-r.ruleDescriptor.name>(p<name>)<endif> }; separator="n * ">
* The return type for any particular rule is of course determined by the source
* grammar file.
*/

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#ifndef <name>_H
#define <name>_H
<actions.(actionScope).preincludes>
/* =================================================================
* Standard antlr3 C runtime definitions
*/
#include "antlr3.h"

/* End of standard antlr 3 runtime definitions */
/* =================================================================
<actions.(actionScope).includes>
#undef __cplusplus
extern "C" {
#endif
// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegators and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
// C only allows such things to be declared if you pre-declare the typedef.
// typedef struct <name>_Ctx_struct <name>, * p<name>;

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
// <recognizer.grammar.delegates: {gl#include\<g.recognizerName>.h>}; separator="\n">
</endif>

<actions.(actionScope).header>

#ifdefANTLR3_WINDOWS
// Disable: Unreferenced parameter.- Rules with parameters that are not used
// constant conditional.- ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable- tree rewrite variables declared but not needed
// Unreferenced local variable- lexer rule declares but does not always use _type
// potentially initialized variable used- retval always returned from a rule
//unreferenced local function has been removed- usually getTokenNames or freeScope, they can go without
warnigns

// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
// #pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif
<if(backtracking)>
/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/
<endif>

<rules:{r |<headerReturnScope(ruleDescriptor=r.ruleDescriptor,...)>>}>

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/** Context tracking structure for <mainName()> */

struct <name>_Ctx_struct
{
  /** Built in ANTLR3 context tracker contains all the generic elements */
  /** required for context tracking. */
  <if(PARSER>)
    pANTLR3_PARSER pParser;
  <endif>
  <if(LEXER>)
    pANTLR3_LEXER pLexer;
  <endif>
  <if(TREE_PARSER>)
    pANTLR3_TREE_PARSER pTreeParser;
  <endif>

  <if(recognizer.grammar.delegates)>
  <recognizer.grammar.delegates:
    { g|p<g.recognizerName>	<g:delegateName()>; };
  </if>
  <if(recognizer.grammar.delegators)>
  <recognizer.grammar.delegators:
    { g|p<g.recognizerName>	<g:delegateName()>; };
  </if>

  <scopes:{it | <if(it.isDynamicGlobalScope)> globalAttributeScopeDecl(it) <endif> }>
  <rules:{r | ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope) }>
  <if(recognizer.grammar.delegators)>
    // Include delegator definition header files
    //
    <recognizer.grammar.delegators: { g|#include\t\t<<g.recognizerName>.h> } ; separator="\n" >
  </if>

  <endif>

  <if(LEXER)>
  <rules:{r | <if(!r.ruleDescriptor.isSynPred)> headerReturnType(ruleDescriptor=r.ruleDescriptor)
    (*m<r.ruleDescriptor.name>()) struct <name>_Ctx_struct * ctx</if>(r.ruleDescriptor.parameterScope)>
    <endif>
    <r.ruleDescriptor.parameterScope:parameterScope()> ;<endif> ]; separator="\n"
  </if>

  <if(!LEXER)>
  </if>
const char * (*getGrammarFileName)();
void (*reset) (struct <name>_Ctx_struct * ctx);
void (*free) (struct <name>_Ctx_struct * ctx);

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 * \{
 *  *
 *  *ANTLR3_API p{name> <name>New        (<inputType()> instream<recognizer.grammar.delegators:{g, p<g.recognizerName> <g:delegateName()>}>);}
ANTLR3_API p{name> <name>NewSSD      (<inputType()> instream,<pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g, p<g.recognizerName> <g:delegateName()>}>);}
@if(!recognizer.grammar.grammarIsRoot)extern pANTLR3_UINT8   <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];}

#ifndef EOF
#undef EOF
#endif
#ifndef Tokens
#undef Tokens
#endif

ifdef EOF
#define EOF ANTLR3_TOKEN_EOF
endif

ifndef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
endif

/*@ End of token definitions for <name>
 */

ifdef __cplusplus
} }
#endif

/*@ END - Note:Keep extra line feed to satisfy UNIX systems */

inputType() ::=<<
<if(LEXER)>
pANTLR3_INPUT_STREAM
<endif>
<if(PARSER)>
pANTLR3_COMMON_TOKEN_STREAM
<endif>
<if(TREE_PARSER)>
pANTLR3_COMMON_TREE_NODE_STREAM
<endif>
>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>
mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!ruleDescriptor.isSynPred)>
void
<else>
<returnType()>
<endif>
<else>
<returnType()>
<endif>
>>

// Produce the lexer output
//
lexer( grammar, name, tokens, scopes, rules, numRules, filterMode, superClass, labelType="pANTLR3_COMMON_TOKEN") ::= <<

<if(filterMode)>
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
* this is a filter mode lexer.
*/
static pANTLR3_COMMON_TOKEN <name>NextToken (pANTLR3_TOKEN_SOURCE toksource):

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
* However, I assume that the C compilers/optimizers are smart enough to work this one out
* these days - Jim
*/
#undef	MEMOIZE
#define	MEMOIZE(ri,si)					if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef	HAVEPARSEDRULE
#define	HAVEPARSEDRULE(r)if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER, r) }
</endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
*/
<rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)><if(!r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name>    (p<name> ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope()>);}; separator="\n"> static void <name>Free(p<name> ctx);
</rules:
<scopes:{it |<if(it.isDynamicGlobalScope)<globalAttributeScope(it)><endif>}}> <actions.lexer.members>
static void <name>Free (p<name> ctx)
{ <if(memoize)> 
if(RULEMEMO != NULL) 
{ RULEMEMO->free(RULEMEMO); RULEMEMO = NULL; } </endif> <if(grammar.directDelegates)> // Free the lexers that we delegated to // functions to. NULL the state so we only free it once. <grammar.directDelegates: 
{g|ctx-><g:delegateName()>->pLexer->rec->state = NULL; ctx-><g:delegateName()>->free(ctx-><g:delegateName()>);}; separator="\n"}
<endif>
LEXER->free(LEXER);
ANTLR3_FREE(ctx);
static void
<name>Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** \brief Name of the grammar file that generated this code
 * /
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
 * /
static const char * getGrammarFileName()
{
    return fileName;
}

<if(filterMode)>
    <filteringNextToken()>
<endif>

/** \brief Create a new lexer called <name>
 * 
 * \param[in] instream Pointer to an initialized input stream
 * \return
 *     - Success p<name> initialized for the lex start
 *     - Fail NULL.
 * */
ANTLR3_API p<name> <name>New
(<inputType()> instream<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
    // See if we can create a new lexer with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);
}

/** \brief Create a new lexer called <name>
 * 
 * \param[in] instream Pointer to an initialized input stream
 * \param[state] state Previously created shared recognizer stat
 * \return
 *     - Success p<name> initialized for the lex start
 *     - Fail NULL.
 * */
ANTLR3_API p<name> <name>NewSSD
(pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE

state<grammar.delegators:{g| p<g.recognizerName> <g:delegateName()> }>
{
    p<name> ctx; // Context structure we will build and return

    ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

    if (ctx == NULL)
    {
        // Failed to allocate memory for lexer context
        return NULL;
    }

    /* -------------------------------------------------------------------
    * Memory for basic structure is allocated, now to fill in
    * in base ANTLR3 structures. We initialize the function pointers
    * for the standard ANTLR3 lexer function set, but upon return
    * from here, the programmer may set the pointers to provide custom
    * implementations of each function.
    *
    * We don't use the macros defined in <name>.h here so you can get a sense
    * of what goes where.
    */

    /* Create a base lexer, using the supplied input stream
    */
    ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

    /* Check that we allocated the memory correctly
    */
    if(ctx->pLexer == NULL)
    {
        ANTLR3_FREE(ctx);
        return NULL;
    }
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
    // Create a LIST for recording rule memos.
    if Grammar grammarIsRoot>
    //
    //    ctx->pLexer->rec->ruleMemo = antlr3IntTrieNew(15);/* 16 bit depth is enough for 32768 rules! */
    </if>
    </if>

    /* Install the implementation of our <name> interface
    */
    <rules:{r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> =
    m<r.ruleDescriptor.name>;<endif>}; separator="\n">}

    /** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE
* it will call mTokens() in this generated code, and will pass it the ctx
* pointer of this lexer, not the context of the base lexer, so store that now.
*/
ctx->pLexer->ctx = ctx;

/**Install the token matching function
*/
ctx->pLexer->mTokens = (void (*)(void *)) (mTokens);

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;
ctx->reset = <name>Reset;

<if(grammar.directDelegates>)
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx->g:delegateName() = g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state, ctx<g:delegateName()>);}; separator="\n"
<endif>
<if(grammar.delegators>)
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx->g:delegateName() = g:delegateName();}; separator="\n"
<endif>
<if(filterMode>)
/* We have filter mode turned on, so install the filtering nextToken function
*/
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

/* Return the newly built lexer to the caller
*/
return ctx;
}
<if(cyclicDFAs>)

/* =============================================================================
* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA>() <! dump tables for all DFA !>
/* =============================================================================
* End of DFA tables for the lexer
*/
filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
* for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
* a token and then try again. BACKTRACKING needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at BACKTRACKING==1.
*/
static pANTLR3_COMMON_TOKEN

<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
    pANTLR3Lexer lexer;
    pANTLR3_RECOGNIZER_SHARED_STATE state;

    lexer = (pANTLR3Lexer)(toksource->super);
    state = lexer->rec->state;

    return NextToken(toksource->super, false, toksource->tok, toksource->filterMode, toksource->state, toksource->rec);
}>>
/* Get rid of any previous token (token factory takes care of
* any deallocation when this token is finally used up.
*/
state->token    = NULL;
state->error    = ANTLR3_FALSE; /* Start out without an exception*/
state->failed   = ANTLR3_FALSE;

/* Record the start of the token in our input stream. */
state->tokenStartCharIndex = lexer->input->istream->index(lexer->input->istream);
state->tokenStartCharPositionInLine = lexer->input->getCharPositionInLine(lexer->input);
state->tokenStartLine    = lexer->input->getLine(lexer->input);
state->text              = NULL;

/* Now call the matching rules and see if we can generate a new token */
for(;;)
{
  if  (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
  {
    /* Reached the end of the stream, nothing more to do. */
    /*
      pANTLR3_COMMON_TOKEN  teof = &(toksource->eofToken);
    */
    teof->setStartIndex (teof, lexer->getCharIndex(lexer));
teof->setStopIndex  (teof, lexer->getCharIndex(lexer));
teof->setLine(teof, lexer->getLine(lexer));
    return  teof;
  }

  state->token    = NULL;
  state->error    = ANTLR3_FALSE; /* Start out without an exception*/

  {
    ANTLR3_MARKER  m;
    m= lexer->input->istream->mark(lexer->input->istream);
    state->backtracking= 1;/* No exceptions */
    state->failed   = ANTLR3_FALSE;
    /* Call the generated lexer, see if it can get a new token together. */
    lexer->mTokens(lexer->ctx);
    state->backtracking= 0;

    /*
      mTokens backtracks with synpred at BACKTRACKING==2
      and we set the synpredgate to allow actions at level 1. !>
    */
if(state->failed == ANTLR3_TRUE)
{
    lexer->input->istream->rewind(lexer->input->istream, m);
    lexer->input->istream->consume(lexer->input->istream);  // advance one char and try again !
}
else
{
    lexer->emit(lexer);  // Assemble the token and emit it to the stream */
    return state->token;
}
}
}

>>

actionGate() ::= "BACKTRACKING==0"

filteringActionGate() ::= "BACKTRACKING==1"

/** How to generate a parser */
genericParser( grammar,

name,

    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    bitsets,
    inputStreamType,
    superClass,
    labelType,
    members,
    rewriteElementType, filterMode,
    ASTLabelType="pANTLR3_BASE_TREE"
) ::= <<

<if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
   *      error reporting.
   */
pANTLR3_UINT8  <name>TokenNames[<length(tokenNames)>+4]
    = {
        (pANTLR3_UINT8) "<invalid>",  // String to print to indicate an invalid token */
        (pANTLR3_UINT8) "<EOR>",
        (pANTLR3_UINT8) "<DOWN>",
        (pANTLR3_UINT8) "<UP>",
        <tokenNames:{it |(pANTLR3_UINT8) <it>}; separator=",\n"
/* For use in tree output where we are accumulating rule labels via label += ruleRef */
/* we need a function that knows how to free a return scope when the list is destroyed. */
/* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro. */
static void ANTLR3_CDECL freeScope(void * scope) {
    ANTLR3_FREE(scope);
}

/** rief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";

/** rief Return the name of the grammar file that generated this code. */
static const char * getGrammarFileName() {
    return fileName;
/** brief Create a new <name> parser and return a context for it. *
* \param[in] instream Pointer to an input stream interface.
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>
<name>New  (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName>
<g:delegateName()>}>)
{
// See if we can create a new parser with the standard constructor
//
return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g:delegateName()>}>);}

/** brief Create a new <name> parser and return a context for it. *
* \param[in] instream Pointer to an input stream interface.
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>
<name>NewSSD  (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g:delegateName()>}>)
{
p<name> ctx; /* Context structure we will build and return */

ctx=(p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

if(ctx==NULL)
{
// Failed to allocate memory for parser context
//
return NULL;
}

/* -----------------------------------------------
* Memory for basic structure is allocated, now to fill in
* the base ANTLR3 structures. We initialize the function pointers
* for the standard ANTLR3 parser function set, but upon return
* from here, the programmer may set the pointers to provide custom
* implementations of each function.
* 
* We don't use the macros defined in <name>.h here, in order that you can get a sense
* of what goes where.
*/
/* Create a base parser/recognizer, using the supplied token stream */
ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);

/* Create a base Tree parser/recognizer, using the supplied tree node stream */
ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);

/* Install the implementation of our <name> interface */

<rules:{r | ctx-><r.ruleDescriptor.name> = <r.ruleDescriptor.name>;}; separator="\n"><if(grammar.delegatedRules)> // Install the delegated methods so that they appear to be a part of this // parser // <grammar.delegatedRules:{ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;}; separator="\n"> </grammar.delegatedRules>{ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;}; separator="\n"> </if> ctx->free = <name>Free;
ctx->reset = <name>Reset;
ctx->getGrammarFileName = getGrammarFileName;

/* Install the scope pushing methods. */

<rules: {r |<if(r.ruleDescriptor.ruleScope)}
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)><
<endif> }>
<recognizer.scopes:{it |<if(it.isDynamicGlobalScope)}
<globalAttributeScope(it)><
<endif> }>
<@apifuns>
</@apifuncs>

</rules>

@if(grammar.directDelegates)> // Initialize the parsers that we are going to delegate some // functions to. // <grammar.directDelegates:
{glctx-><g.delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE, ctx<grammar.delegators:{g, <g:delegateName()> }>;}; separator="\n"> </grammar.delegators>

@if(grammar.directDelegates)> // Install the pointers back to parsers that will delegate us to perform certain functions // for them.
//
<grammar.delegators:
    {[g|ctx->g:delegateName()]= g:delegateName();}; separator="n"
<endif>
<actions.parser.apifuncs>
<actions.treeparser.apifuncs>
<if(grammar.grammarIsRoot)>
    /* Create a LIST for recording rule memos. */
    RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>
/* Install the token table */
PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;
<@debugStuff()>

    /* Return the newly built parser to the caller */
    return ctx;
}

static void
<name>Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** Free the parser resources */
static void
<name>Free(p<name> ctx)
{
    /* Free any scope memory */
    <rules: {r
        [if(r.ruleDescriptor.ruleScope)<ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)>]<n><endif> ]>
        <recognizer.scopes:{it |<if(it.isDynamicGlobalScope)<globalAttributeScopeFree(it)>]<n><endif> ]>

        <@cleanup>
        <@end>
<if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to.NULL the state so we only free it once.
    //
    <grammar.directDelegates:
ANTLR3_FREE(ctx);

/* Everything is released, so we can return */
return;
}

/** Return token names used by this grammar() */
* 
* The returned pointer is used as an index into the token names table (using the token 
* number as the index).
* 
* return Pointer to first char * in the table.
*/
static pANTLR3_UINT8 *getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

/* Declare the bitsets */

/* Declare the bitsets */
<bitsets:{it | <bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)}>
  
<if(cyclicDFAs)>

<members>

/* Declare the bitsets */

<if(cyclicDFAs)>

/* =========================================================================
* DFA tables for the parser
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =========================================================================
* End of DFA tables for the parser
*/
<endif>

/* ========================================================================
* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:[ruleDescriptor]
  <returnType()><ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
  <endif><ruleDescriptor.parameterScope:parameterScope()>)
  |
  <if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>
  <ruleDescriptor.name>(ctx-
  ><ruleDescriptor.name>(ctx-
  ><ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
  <endif><ruleDescriptor.parameterScope:parameterScope().attributes:{a|<a.name>; separator=", "};
  \}); separator="\n"
  <endif>
/* End of parsing rules
* =========================================================================
*/

/* =========================================================================
* Syntactic predicates
*/
<synpreds:{p | <synpred(predname=p)>>
/* End of syntactic predicates
* =========================================================================
*/

>>

parser(grammar,
name,
scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
ASTLabelType,
superClass="Parser",
labelType="pANTLR3_COMMON_TOKEN",
members=[<actions.parser.members>]
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN",
...)>>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar,
name,
scopes,
tokens,
tokenNames,
globalAction,
rules,
numRules,
bitsets,
filterMode,
labeType={<ASTLabelType>},
ASTLabelType="pANTLR3_BASE_TREE",
superClass="TreeParser",
members={<actions.treeParser.members>}
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",
rewriteElementType="NODE", ...)>>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
static void _fragment(p ctx )
{

  // $ANTLR end _fragment
>>

synpred(predname) ::= <<
static ANTLR3_BOOLEAN synpred(p ctx )
{

ANTLR3_MARKER start;
ANTLR3_BOOLEAN success;

BACKTRACKING++;
@@start()
start= MARK();
<syncall>
    // can never throw exception
success= !(FAILEDFLAG);
REWIND(start);
@@stop()
BACKTRACKING--;
FAILEDFLAG= ANTLR3_FALSE;
return success;
}<<<

>>

ruleMemoization(rname) ::= <<
@if(memoize)
if ( (BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>)) )
{
@if(ruleDescriptor.hasMultipleReturnValues)
@if(!ruleDescriptor.isSynPred)
retval.start = 0;<<<
<endif>
<endif>

<<
static void _fragment(p ctx )
{

  // $ANTLR end _fragment
>>

synpred(predname) ::= <<
static ANTLR3_BOOLEAN synpred(p ctx )
{

ANTLR3_MARKER start;
ANTLR3_BOOLEAN success;

BACKTRACKING++;
@@start()
start= MARK();
<syncall>
    // can never throw exception
success= !(FAILEDFLAG);
REWIND(start);
@@stop()
BACKTRACKING--;
FAILEDFLAG= ANTLR3_FALSE;
return success;
}<<<

>>

ruleMemoization(rname) ::= <<
@if(memoize)
if ( (BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>)) )
{
@if(ruleDescriptor.hasMultipleReturnValues)
@if(!ruleDescriptor.isSynPred)
retval.start = 0;<<<
<endif>
<endif>
<rule>
  
  <(ruleDescriptor.actions.after):execAfter()>
  <finalCode(finalBlock=finally)>
  <if(!ruleDescriptor.isSynPred)>
    <scopeClean()></n>
  <endif>
  
  return <ruleReturnValue()>
  }
  <endif>
  
  >>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
  if (HASEXCEPTION())
  {
    goto rule<ruleDescriptor.name>Ex;
  }
  <if(backtracking)>
  if (HASFAILED())
  {
    <scopeClean()>
    <@debugClean()>
    return <ruleReturnValue()>
  }
  <endif>
  
  >>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>
  if (BACKTRACKING>0)
  {
    FAILEDFLAG = <true_value()>
    <scopeClean()>
    return <ruleReturnValue()>
  }
  <endif>
  
  >>

/** How to generate code for a rule. This includes any return type *
 * data aggregates required for multiple return values. */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  ** $ANTLR start <ruleName>
  * <fileName>:<description>
  */

static <returnType>()
<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,<endif>ruleDescriptor.parameterScope:parameterScope())
{
    <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1), BACKTRACKING);<endif>
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <ruleLabelDefs()>
    <ruleInitializations()>
    <ruleDescriptor.actions.init>
    <ruleMemoization(rname=ruleName)>
    <ruleLabelInitializations()>
    <@preamble()>
    {
        <block>
    }

    <ruleCleanUp()>
    <if(exceptions)>
        if(HASEXCEPTION())
        {
            <exceptions:{e|<catch(decl=e.decl,action=e.action)>\n}>}
        } else {
            {
                <ruleDescriptor.actions.after):execAfter()>
            }<
        }<
    } else {
    }<
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
        actions.(actionScope).rulecatch<else>
        if (HASEXCEPTION())
        {
            PREPORTERROR();
            PRECOVER();
            <setErrorReturnValue()>
        }<if(ruleDescriptor.actions.after)> else {
        {
            <(ruleDescriptor.actions.after):execAfter()>
        }\n    }<endif>
    <endif>
    }<endif>
    <endif>
    <endif>
    <endif>
ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed, BACKTRACKING);

<if(trace)>
ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed, BACKTRACKING);<endif>

<memoize()>

<if(finally)>
<finalCode(finalBlock=finally)>
<endif>

<scopeClean()>

<@postamble()>

return <ruleReturnValue>();

} /* SANTLR end <ruleName> */

>

finalCode(finalBlock) ::= <<
{
  <finalBlock>
}

>>

catch(decl,action) ::= <<
/* catch(decl,action) */
{
  <e.action>
}

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval;<
>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name>;
}>
<endif>
<if(memoize)>
ANTLR3_MARKER <ruleDescriptor.name>._StartIndex:
<endif>

>>

ruleInitializations() ::= <<
/* Initialize rule variables */
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes:{ a |
<a.initValue>()retval.<a.name> = <a.initValue>;<endif>

>>
ruleLabelDefs() ::= <<<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
  :{it |<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
  :{it |pANTLR3_VECTOR list_<it.label.text>;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
  :ruleLabelDef(); separator="\n"
>
>>

ruleLabelInitializations() ::= <<<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
  :{it |<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
  :{it |list_<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
  :ruleLabelInitVal(); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)
<if(!ruleDescriptor.isSynPred)
  retval.start = LT(1); retval.stop = retval.start;
</if> </if>
>>

lexerRuleLabelDefs() ::= <<<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
  ruleDescriptor.ruleListLabels]
  :{it |<labelType> <it.label.text>;}; separator="\n"
>
lexerRuleLabelInit() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | <it.label.text> = NULL;}; separator = "\n"
>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%

memoize() ::= <<
<if(memoize)>

...
ruleCleanUp() ::= \<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
    retval.stop = LT(-1);<

<endif>
<endif>
<endif>

scopeClean() ::= \<

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules, which do not produce tokens.
*/
exerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= \<

/** rief Lexer rule generated by ANTLR3
* *
* $ANTLR start <ruleName>
* *
* Looks to match the characters the constitute the token <ruleName>
* from the attached input stream.
* *
* *
* \remark
* - lexer->error == ANTLR3_TRUE if an exception was thrown.
*/
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
{
    ANTLR3_UINT32_type;
    <ruleDeclarations>()
/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<

/** This is the entry point in to the lexer from an object that
* wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
*/
static void mTokens(p<name> ctx)
{
    <block><\n>
        goto ruleTokensEx; /* Prevent compiler warnings */
    ruleTokensEx: 
}
>>

 LexState->type = _type;
<endif>
<if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking =%d\\n",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);<endif>
<ruleCleanUp()>
<lexerRuleLabelFree()>
<(ruleDescriptor.actions.after):execAfter()>
<memoize>
}
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<

/** This is the entry point in to the lexer from an object that
* wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
*/
static void mTokens(p<name> ctx)
{
    <block><\n>
        goto ruleTokensEx; /* Prevent compiler warnings */
    ruleTokensEx: 
}
>>
// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
{
  int alt<decisionNumber>=<maxAlt>;
  <decls>
  @@predecision()
  <decision>
  @@postdecision()
  @@prebranch()
  switch (alt<decisionNumber>)
  {<alts:{a | <altSwitchCase(i,a)>}>}
  @@postbranch()
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
{
  // <fileName>:<description>

  ANTLR3_UINT32 alt<decisionNumber>;

  alt<decisionNumber>=<maxAlt>;

  <decls>
  @@predecision()
  <decision>
  @@postdecision()
  switch (alt<decisionNumber>)
  {<alts:{a | <altSwitchCase(i,a)>}>}
  }
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

// <fileName>:<description>
<brule>
<brule>
<brule>

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/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <$prealt()>
  <alts>
  <$postalnt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  {
    int cnt<decisionNumber>=0;
    <decls>
    <$preloop()>
    for (;;)
    {
      int alt<decisionNumber>=<maxAlt>;
      <$predecision()>
      <decision>
      <$postdecision()>
      switch (alt<decisionNumber>)
      {
        <alts:{a | <$altSwitchCase(i,a)>}>}
        default:
          if ( cnt<decisionNumber> >= 1 )
          {
            goto loop<decisionNumber>;
          }
          <$ruleBacktrackFailure()>
          <$earlyExitEx()>
          <$earlyExitException()>
          goto rule<ruleDescriptor.name>Ex;
        }
    cnt<decisionNumber>++;
    }
    loop<decisionNumber>: ;/* Jump to here if this rule does not match */
    <$@postloop()>
>>

earlyExitEx() ::= <<

/* mismatchedSetEx() */
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>

/*@preloop()*/
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
   /*@predecision()*/
    <decision>
   /*@postdecision()*/
    switch (alt<decisionNumber>)
    {
    <alts:{a | <altSwitchCase(i,a)>}}
    default:
        goto loop<decisionNumber>;/* break out of the loop */
        break;
    }
}
loop<decisionNumber>: ; /* Jump out to here if this rule does not match */
/*@postloop()*/

>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
number. A DFA predicts the alternative and then a simple switch */
doess the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
case <altNum>:
  @@prealt()
  <alt>
  break;
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
  @@declarations()
  @@initializations()
  <elements:element()>
  <rew>
  @@cleanup()
}
>>

// ELEMENTS
/** What to emit when there is no rewrite. For auto build */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element(e) ::= <<
  @@prematch()
  <e.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)> <label> = (<labelType>) MATCHT(<token>, &FOLLOW_<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure>()
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...>
  <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
  if (list_<label> == NULL)
  {
    list_<label>=ctx->vectors->newVector(ctx->vectors);
/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = LA(1);<
><endif>
MATCHC(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = LA(1);<
><endif>
MATCHRANGE(<a>, <b>);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= LA(1);<
><else>
<label>=(<labelType>)LT(1);<
><endif>
<endif>
if ( <s> )
{
  CONSUME();
  <postmatchCode>
  <if(!LEXER)>
    PERRORRECOVERY=ANTLR3_FALSE;
  <endif>
  <if(!backtracking)>FAILEDFLAG=ANTLR3_FALSE;</<n>endif>
}
else
{
  <ruleBacktrackFailure()>
  <mismatchedSetEx()>
  @mismatchedSetException()>
  <if(LEXER)>
    LRECOVER();
}
<else>
RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
<endif>

goto rule<ruleDescriptor.name>Ex;

>>

mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
<endif>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)> 
<listLabel(elem=label,...)> 
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
<label>Start = GETCHARINDEX();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tnstream->istream;
<else>
MATCHS(<string>);
<checkRuleBacktrackFailure()></n>
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);
<endif>
MATCHANYT();
<checkRuleBacktrackFailure()>
>>
wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHANY();
<checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()>-><endif><rule.name>(ctx<if(scope)>><scope:delegateName()><endif><if(args)>, <args; separator=", "><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>
/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{

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ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()><endif> <if(args)>, <endif><args; separator="",">);
<checkRuleBacktrackFailure()>
<label> = LEXISTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, Start<elementIndex>);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT;
}
<else>
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()><endif> <if(args)>, <endif><args; separator="",">);
<checkRuleBacktrackFailure()>
<endif>
}>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
ANTLR3_UINT32 <label>Start<elementIndex>;
<labelType> <label>;
<label>Start<elementIndex> = GETCHARINDEX();
MATCHC(ANTLR3_CHARSTREAM_EOF);
<checkRuleBacktrackFailure()>
<label> = LEXISTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_EOF);
<label>->setStartIndex(<label>, Start<elementIndex>);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tnstream->istream;
}
<else>
MATCHC(ANTLR3_CHARSTREAM_EOF);
<checkRuleBacktrackFailure()>
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg() \<= <opPrec>"
recRuleSetResultAction() := "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) := "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
      MATCHT(ANTLR3_TOKEN_DOWN, NULL);
      <checkRuleBacktrackFailure()>
      <children:element()>
      MATCHT(ANTLR3_TOKEN_UP, NULL);
      <checkRuleBacktrackFailure()>
    }<else>
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <checkRuleBacktrackFailure()>
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
    <checkRuleBacktrackFailure()>
  }<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression). */
validateSemanticPredicate(pred, description) ::= <<
  if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    <newFPE(...)>
  }
>>

newFPE() ::= <<
  CONSTRUCTEX();
  EXCEPTION->type = ANTLR3_FAILED_PREDICATE_EXCEPTION;
  EXCEPTION->message = (void *)"<description>";
  EXCEPTION->ruleName = (void *)"<ruleName>";
  <un>
>>

// Fixed DFA (if-then-else)
dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  {

  // F i x e d  D F A  (if-then-else)
  dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<

int LA<decisionNumber>_<stateNumber> = LA(<k>);
else
{
<if(eotPredictsAlt>)
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;
<endif>
}
}
>>

newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state = <stateNumber>;
<@noViableAltException()>
><
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * 'This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackStateDecls():= <<
ANTLR3_UINT32   LA<decisionNumber>_<stateNumber>;
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dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
   /* dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) */
   int LA<decisionNumber>_<stateNumber> = LA(<k>);
   <edges; separator="\n"> <ln>
   <if(eotPredictsAlt)>
   <if(edges)>
   alt<decisionNumber>.mkdirs(eotPredictsAlt);  <! if no edges, don't gen ELSE !>
   <else>
   else
   alt<decisionNumber>.mkdirs(eotPredictsAlt);<ln>
   <endif>
   <endif>
   }
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>.mkdirs<alt>;"

/** A simple edge with an expression.  If the expression is satisfied, 
* enter to the target state.  To handle gated productions, we may 
* have to evaluate some predicates for this edge. */
dfaEdge(labelExpr, targetState, predicates) ::= <<
   if ( <if(predicates)>(<predicates>)) && <endif>(<labelExpr>)
   {<targetState>
   }
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator 
* decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
   switch ( LA(<k>) )
   {<edges; separator="\n">}
   default:
   <if(eotPredictsAlt)>
   alt<decisionNumber>.mkdirs(eotPredictsAlt);
Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used *
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM, &cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits) *
* which are then used to statically initialize the dfa structure, which means that there
* is no runtime initialization whatsoever, other than anything the C compiler might
* need to generate. In general the C compiler will lay out memory such that there is no
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
 * <dfa.description>
 */
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
 { <dfa.eot; wrap="\n", separator=" ", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
 { <dfa.eof; wrap="\n", separator=" ", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
 { <dfa.min; wrap="\n", separator=" ", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
 { <dfa.max; wrap="\n", separator=" ", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
 { <dfa.accept; wrap="\n", separator=" ", null="-1">};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
 { <dfa.special; wrap="\n", separator=" ", null="-1">};
/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL
<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
 { <table; separator=" ", wrap="\n", null="-1" > \
 };};

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
 {<dfa.transitionEdgeTables:{xref}|dfa<dfa.decisionNumber>_T<xref>}; separator=" ", wrap="\n", null="_empty">
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer, pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
    ANTLR3_INT32 _s;

    _s = s;
    switch (s)
    {
        case <i0>:
        ...
    }

    FAILEDFLAG = ANTLR3_TRUE;
    return -1;
}

CONSTRUCTEX();
EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message = (void *)"<dfa.description>";
EXCEPTION->decisionNum = <dfa.decisionNumber>;
EXCEPTION->state = _s;
<@noViableAltException()>
return -1;

<@errorMethod()>

/*/ Declare tracking structure for Cyclic DFA <dfa.decisionNumber> */
static ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber> =
{
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const pANTLR3_UCHAR)<dfa.description>",
    <if(dfa.specialStateSTs)>
    (CDFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
    <else>
    (CDFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition, /* Default special state transition function*/
    </if>
antlr3dfaspecialTransition /**< DFA specialTransition is currently just a default function in the runtime */
antlr3dfapredict /**< DFA simulator function is in the runtime */
dfa<dfa.decisionNumber>_eot /**< EOT table */
dfa<dfa.decisionNumber>_eof /**< EOF table */
dfa<dfa.decisionNumber>_min /**< Minimum tokens for each state */
dfa<dfa.decisionNumber>_max /**< Maximum tokens for each state */
dfa<dfa.decisionNumber>_accept /**< Accept table */
dfa<dfa.decisionNumber>_special /**< Special transition states */
dfa<dfa.decisionNumber>_transitions /**< Table of transition tables */
}
/* End of Cyclic DFA <dfa.decisionNumber>
* ---------------------
*/

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<
ANTLR3_MARKER index<decisionNumber>_<stateNumber>;<
LA<decisionNumber>_<stateNumber> = LA(1);<
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = INDEX();<
REWINDLAST();<
sicew<
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
SEEK(index<decisionNumber>_<stateNumber>);<
<endif>
if ( s>=0 )
{
return s;
}
break;
}>>
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>) )
{
    s = <targetStateNumber>;
}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
*  always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "((<left>) && (<right>))"

orPredicates(operands) ::= "(<operands:{o|(<o>)}; separator="||">)"

notPredicate(pred) ::= "!(<evalPredicate(pred,{}))"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>(ctx)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
*  somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
((LA<decisionNumber>_<stateNumber> >= <lower>) && (LA<decisionNumber>_<stateNumber> \< <upper>))%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) >= <lower>) &&
(LA(<k>) \< <upper>))"

setTest(ranges) ::= "<ranges; separator=" || ">

// ATTRIBUTES

makeScopeSet() ::= <<
/* makeScopeSet() */
/** Definition of the <scope.name> scope variable tracking
*/
* structure. An instance of this structure is created by calling
* `<name>_.<scope.name>Push()`.
*/

typedef struct <scopeStruct(sname=scope.name,...)>_struct
{
    /** Function that the user may provide to be called when the
    * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
    *
    * \param Pointer to an instance of this typedef/struct
    */
    void (ANTLR3_CDECL *free)(struct <scopeStruct(sname=scope.name,...)>_struct * frame);

    /*============================================================================
    * Programmer defined variables...
    */
    <scope.attributes:{it |<it.decl>;}; separator="\n">/

    /* End of programmer defined variables
    */
    /*============================================================================
    */
}
<scopeStruct(sname=scope.name,...), * <scopeType(sname=scope.name,...)>;

>.getDoubleAttributeScopeDecl(scope) ::= <<
    /* getDoubleAttributeScopeDecl(scope) */
    <makeScopeSet(...)>
<<

ruleAttributeScopeDecl(scope) ::= <<
    /* ruleAttributeScopeDecl(scope) */
    <makeScopeSet(...)>
<<

globalAttributeScopeFuncDecl(scope) ::= <<
    /* globalAttributeScopeFuncDecl(scope) */
    <if(scope.attributes)>
    /* -------------------------------------------------------------------------
    */
    * Function declaration for creating a `<name>_.<scope.name>` scope set
    <endif>
<<
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----------------------------------------------------------------------------- */

<endif>
>>

<endif>
>>

globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope) */
/** Function  for popping the top value from a <scopeStack(sname=scope.name)> */
/*/ void <scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if(SCOPE_TOP(<scope.name>)-&gt;free != NULL)
    {
        SCOPE_TOP(&lt;scope.name&gt;)-&gt;free(SCOPE_TOP(&lt;scope.name&gt;));
    }
    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-&gt;&lt;scopeStack(sname=scope.name,...)&gt;_limit--;
    SCOPE_TOP(&lt;scope.name&gt;) = (&lt;scopeType(sname=scope.name)&gt;)(ctx-&gt;&lt;scopeStack(sname=scope.name,...)&gt;-
-&gt;get(ctx-&gt;&lt;scopeStack(sname=scope.name,...)&gt;), ctx-&gt;&lt;scopeStack(sname=scope.name,...)&gt;_limit - 1));
}
<endif>
>>

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncDecl(scope) */
/** ----------------------------------------------------------------------------- */
* Function declarations for creating a &lt;name&gt;_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p&lt;name&gt; ctx);
static void ANTLR3_CDECL &lt;scope.name&gt;Free(<scopeType(sname=scope.name)&gt; scope);
/* ----------------------------------------------------------------------------- */
ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name,...)> 
*/
void <scopePopName(sname=scope.name,...)> (p<name> ctx)
{
  // First see if the user defined a function they want to be called when a
  // scope is popped/freed.
  //
  // If the user supplied the scope entries with a free function, then call it first
  //
  if(SCOPE_TOP(<scope.name>)->free != NULL)
  {
    SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
  }

  // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
  // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
  // next too far so we don't want to keep freeing and allocating them
  //
  ctx-><scopeStack(sname=scope.name,...)>._limit--;
  SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name,...)>)(ctx-><scopeStack(sname=scope.name,...)>-_limit - 1));
}
<endif>
>>

globalAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDef(scope)
*/
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>() 
* and <scopePopName(sname=scope.name,...)>() 
*/
pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>._limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)> 
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
  /* ruleAttributeScopeDef(scope) */
  */
  /** Pointer to the <scope.name> stack for use by <scopePush(sname=scope.name)>() 
   * and <scopePop(sname=scope.name,...)>() */
  */
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<scopeType(sname=scope.name,...)> (*<scopePush(sname=scope.name,...)>)(struct <name>_Ctx_struct * ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>

globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
  /* globalAttributeScopeFuncs(scope) */
  */
  <attributeFuncs(scope)>
<endif>
>>

ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
  /* ruleAttributeScopeFuncs(scope) */
  */
  <attributeFuncs(scope)>
<endif>
>>

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
  /* globalAttributeScope(scope) */
  */
  ctx-><scopePush(sname=scope.name,...)> = <scopePush(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>
ruleAttributeScope(scope) ::=  
<<  
<if(scope.attributes)>  
/* ruleAttributeScope(scope) */  
*/  
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;  
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);  
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;  
<scopeTop(sname=scope.name,...)> = NULL;  
<endif>  
>>  
  
globalAttributeScopeFree(scope) ::=  
<<  
<if(scope.attributes)>  
/* globalAttributeScope(scope) */  
*/  
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);  
<endif>  
>>  
  
ruleAttributeScopeFree(scope) ::=  
<<  
<if(scope.attributes)>  
/* ruleAttributeScope(scope) */  
*/  
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);  
<endif>  
>>  
  
scopeTopDecl(sname) ::=  
<<  
p<name>_<sname>Top  
>>  
  
scopeTop(sname) ::=  
<<  
ctx-><scopeTopDecl(sname=sname,...)>  
>>  
  
scopePop(sname) ::=  
<<  
<scopePopName(sname=sname,...)>(ctx);  
>>  
  
scopePush(sname) ::=  
<<  
p<name>_<sname>Push(ctx)  
>>  
  
scopePopName(sname) ::=  
<<  
p<name>_<sname>Pop  
>>
scopePushName(sname) ::= <<
p<name>_<sname>Push
>>

scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>

scopeStruct(sname) ::= <<
<name>_<sname>_SCOPE
>>

scopeStack(sname) ::= <<
p<name>_<sname>Stack
>>

attributeFuncs(scope) ::= <<
@if(scope.attributes)
/* attributeFuncs(scope) */
*/

static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)
{
    ANTLR3_FREE(scope);
}

/** \brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and
 * add it to the top of the stack.
 *
 * \remark
 * By default the structure is freed with ANTLR_FREE(), but you can use the
 * the \@init action to install a pointer to a custom free() routine by
 * adding the code:
 * \code
 * <scopeTop(sname=scope.name)>->free = myroutine;
 * \endcode
 *
 * With lots of comments of course! The routine should be declared in
 * \@members { } as:
 * \code
 * void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr).
 * \endcode
 *
 * It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
 * NB: It should not free the pointer it is given, which is the scope stack entry itself
 * and will be freed by the function that calls your custom free routine.
 *
static <scopeType(sname=scope.name)>
  <scopePushName(sname=scope.name)>((p<name> ctx)
  {
    /* Pointer used to create a new set of attributes */
    <scopeType(sname=scope.name)> newAttributes;

    /* Allocate the memory for a new structure if we need one. */
    if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>) > ctx-
      <scopeStack(sname=scope.name)>_limit)
    {
      // The current limit value was less than the number of scopes available on the stack so
      // we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
      // is one less than that, or conveniently, the current value of limit.
      //
      newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-
        <scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>_limit);
    }
    else
    {
      // Need a new allocation
      //
      newAttributes = ( <scopeType(sname=scope.name)> ) ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
      if (newAttributes != NULL)
      {
        /* Standard ANTLR3 library implementation */
        /*
        ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes,
        (void (*)(void *))<scope.name>Free);
        */
      }
    }
    
    // Blank out any previous free pointer, the user might or might install a new one.
    //
    newAttributes->free = NULL;

    // Indicate the position in the available stack that the current level is at
    //
    ctx-><scopeStack(sname=scope.name)>_limit++;

    /* Return value is the pointer to the new entry, which may be used locally
    * without de-referencing via the context. */
    return newAttributes;
  }<\n>
returnStructName(r) ::= "<r.name>_return"

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
ANTLR3_BOOLEAN
<endif>
%

/** Generate the C type associated with a single or multiple return
*  value(s).
*/
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturntype>
<else>
void
<endif>
<endif>
<else>
ANTLR3_BOOLEAN
<endif>
%

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "0".
*/
initValue(typeName) ::= <<
= <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
#undefRETURN_TYPE_<label.label.text>
#defineRETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)>
>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::= 
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
@if(!ruleDescriptor.isSynPred)
@if(ruleDescriptor.hasMultipleReturnValues)
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct 
{
@if(!TREE_PARSER)
 /** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees */
 pANTLR3_COMMON_TOKEN start;
pANTLR3_COMMON_TOKEN stop;
<else>
<recognizer.ASTLabelType> start;
<recognizer.ASTLabelType> stop;
<endif>
}@ruleReturnMembers()
<ruleDescriptor.returnScope.attributes:{it |<it.type> <it.name>;}; separator="\n”
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName>();<\n><\n>
@endif
<endif>
>>
	parameterScope(scope) ::= <<
<scope.attributes:{it |<it.decl> }; separator=", ">
>>
	parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;"

/** Note that the scopeAttributeRef does not have access to the
* grammar name directly
*/

scopeAttributeRef(scope, attr, index, negIndex) ::= <%
  <if>(negIndex)>
  ((SCOPE_TYPE(scope))(ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope)->get( ctx->SCOPE_STACK(scope)->size(ctx->SCOPE_STACK(scope)) - <negIndex> - 1)))->attr.name
  <else>
  <if>(index)>
  ((SCOPE_TYPE(scope))(ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope), (ANTLR3_UINT32)index)))->attr.name
  <else>
  (SCOPE_TOP(scope))->attr.name
  <endif>
  <endif>
  %>

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
  <if>(negIndex)>
  ((SCOPE_TYPE(scope))(ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope)->get( ctx->SCOPE_STACK(scope)->size(ctx->SCOPE_STACK(scope)) - <negIndex> - 1)))->attr.name = <expr>
  <else>
  <if>(index)>
  ((SCOPE_TYPE(scope))(ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope), (ANTLR3_UINT32)index)))->attr.name = <expr>
  <else>
  (SCOPE_TOP(scope))->attr.name = <expr>
  <endif>
  <endif>
  %>

/** $x is either global scope or x is rule with dynamic scope; refers *  to stack itself not top of stack. This is useful for predicates  */
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(scope)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <<
  <if>(referencedRule.hasMultipleReturnValues)>
  <scope>.<attr.name>
  <else>
  <scope>
  <endif>
>>

returnAttributeRef(ruleDescriptor, attr) ::= <<
  <if>(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name>
  <else>
  <attr.name>
  <endif>
return SetAttributeRef(ruleDescriptor.attr.expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>->tree)"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>->getText(<scope>))->toInt32(<scope>->getText(<scope>)))"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabelRef(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>-getChannel(<scope>))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>-getTokenIndex(<scope>))"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>-getText(<scope>))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "<<
<if(TREE_PARSER)>
INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR->getTokenStopIndex(ADAPTOR, retval.start))
<else>
STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
<endif>
>>"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "((LEXER->getCharIndex(LEXER)-1))"
lexerRulePropertyRef_int(scope,attr) ::= "LEXER->getText(LEXER)-toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
 * any garbage collection, after code is executed even in backtracking
 * mode. Must be documented clearly.
 */
execAfter(action) ::= "<<
{| <action>
}
>>"

/** How to execute an action (when not backtracking) */
execAction(action) ::= "<<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>

---

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if ( <actions.(actionScope).synpredgate> )
{
    <action>
}
<else>
if ( BACKTRACKING == 0 )
{
    <action>
}
<endif>
<else>
{
    <action>
}
<endif>

// MISC (properties, etc...)

bitsetDeclare(name, words64) ::= <<
/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR3_BITWORD <name>_bits[] = { <words64>{it |ANTLR3_UINT64_LIT(<it>)}; separator="," };
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)>};
>>

bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);
>>

codeFileExtension() ::= ".c"

true_value() ::= "ANTLR3_TRUE"
false_value() ::= "ANTLR3_FALSE"

Found in path(s):
*/opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/C.stg
No license file was found, but licenses were detected in source scan.

/*
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*/
/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@outputFile.imports() ::= <<
<@super.imports()>
import org.stringtemplate.v4.*;
import java.util.HashMap;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
/* ST returnScope.ruleReturnMembers -- empty */
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.memvars() ::= <<
ST *st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.properties() ::= <<
@property (retain) ST *st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methodsDecl() ::= <<
- (ST *)getTemplate;
- (NSString *)toString;
>>
/** Add this to each rule's return value struct */
@returnScope.ruleReturn.synthesize() ::= <<
  @synthesize st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methods() ::= <<
  - (ST *)getTemplate { return st; }
  - (NSString *)toString { return st==nil?nil:[st render]; }
>>

@genericParser.members() ::= <<
  <@super.members()>
  STGroup *templateLib = [STGroup newSTGroup];

  - (void)setTemplateLib:(STGroup *)aTemplateLib
  {
    self.templateLib = aTemplateLib;
  }

  - (STGroup *)getTemplateLib
  {
    return templateLib;
  }
>>

@genericParserHeaderFile.memVars() ::= <<
  <@super.memVars()>
  /* ST genericParserHeaderFile.memVars -- empty now */
  STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<
  <@super.properties()>
  /* ST genericParser.properties */
  @property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

@genericParserHeaderFile.methodsDecl() ::= <<
  <@super.methodsDecl()>
  /* ST genericParser.methodsDecl */
  - init;
  - (STGroup *)getTemplateLib;
  - (void)setTemplateLib:(STGroup *)aTemplateLib;
@end
>>
@genericParser.synthesize() ::= <<
<@super.synthesize()>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

@genericParser.methods() ::= <<
<@super.methods()>
/* ST genericParser.methods */

- (STGroup *)getTemplateLib
{
  return templateLib;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
  templateLib = aTemplateLib;
}

>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (STGroup *) getTemplateLib
{
  return templateLib;
}

- (void) setTemplateLib:(STGroup *) templateLib
{
  this.templateLib = templateLib;
}

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<liListLabel(label, [ [<label> getTemplate]; ])>}

>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
@if(backtracking)
if ( <actions.(actionScope).synpredgate> ) {

/** Invoke a template with a set of attribute name/value pairs.
* Set the value of the rule's template *after* having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name, args) ::= <%
@if(args)><args:{a | [}>


/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
<if(args)><args:{a | add:="<a.name>" value:<a.value>}]><endif>;
<templateLib getInstanceOf:<expr>];
<if(args)><args:{a | add:="<a.name>" value:<a.value>}]><endif>;
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
<if(args)><args:{a | [}><endif>
[ST newST:templateLib template:"<template>"]
<if(args)><args:{a | add:="<a.name> "<a.value>}]><endif>;
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
([<st>) setAttribute:"<attrName>" value:<expr>];
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
[ST newST:templateLib template:<stringExpr>];
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ST4ObjC.stg
No license file was found, but licenses were detected in source scan.

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*/

csharpVisibilityMap ::= [
"private":"private",
"protected":"protected",
"public":"public",
"fragment":"private",
default:"private"
]

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::= <<
//---------------------------------------------------------------
// \<auto-generated>
// This code was generated by a tool.
// ANTLR Version: <ANTLRVersion>
//
// Changes to this file may cause incorrect behavior and will be lost if
// the code is regenerated.
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;

namespace <grammar.recognizerName> {

} // namespace <grammar.recognizerName>

partial class <grammar.recognizerName> :
// delegates
<grammar.delegates:
{g|private <g.recognizerName> <g:delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
{g|private <g.recognizerName> <g:delegateName()>;}; separator="\n">
<last(grammar.delegators):
{g|private <g.recognizerName> gParent;}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<! needed by subclasses !>
{
OnCreated();
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input, <grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
: this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g:delegateName()>}>))
{
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input, RecognizerSharedState state, <grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>)
: base(input, state)
{
<if(memoize)>
<if(grammar.grammarIsRoot)>
state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|, <p:delegateName()>}, this);}; separator="\n">
<grammar.delegators:
{g|this.<g:delegateName>() = <g:delegateName>();}; separator="\n">
<last(grammar.delegators):
{g|gParent = <g:delegateName>();}>

OnCreated();
}
public override string GrammarFileName { get { return "<fileName>"; } }

<if(grammar.hasDelegates)>
public override <lexerInputStreamType()> CharStream
{
get
{
return base.CharStream;
}

set
{
base.CharStream = value;
<grammar.directDelegates:
    {g<g:delegateName>() = new <g:recognizerName>(input, state<trunc(g.delegators):{p,<p:delegateName>()}>,
this);}; separator="\n">
<grammar.delegators:
    {g|this.<g:delegateName>() = <g:delegateName>();}; separator="\n">
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>
}

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
    base.SetState(state);
    <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
}
<endif>

<endif>
<if(filterMode)>
<filteringNextToken()>
<endif>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

<rules; separator="\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;} separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n">
}
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
public override IToken NextToken()
{
  while (true)
  {
    if (input.LA(1) == CharStreamConstants.EndOfFile)
    {
      IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default, input.Index, input.Index);
      eof.Line = Line;
      eof.CharPositionInLine = CharPositionInLine;
      return eof;
    }
    state.token = null;
    state.channel = TokenChannels.Default;
    state.tokenStartCharIndex = input.Index;
    state.tokenStartCharPositionInLine = input.CharPositionInLine;
    state.tokenStartLine = input.Line;
    state.text = null;
    try
    {
      int m = input.Mark();
      state.backtracking=1;<!-- means we won't throw slow exception -->
      state.failed=false;
      mTokens();
      state.backtracking=0;
      <!-- mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. -->
      if (state.failed)
      {
        input.Rewind(m);
        input.Consume();<!-- advance one char and try again -->
      }
      else
      {
        Emit();
      }
return state.token;
}
}
catch (RecognitionException re)
{
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if (state.backtracking > 1)
base.Memoize(input, ruleIndex, ruleStartIndex);
}

cATCH rule = ruleIndex + ruleStartIndex;

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if (state.backtracking > 1)
return base.AlreadyParsedRule(input, ruleIndex);

return false;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, inputStreamType, superClass,
  labelType, members, rewriteElementType,
  filterMode, ASTLabelType="object") ::= <<
[System.CLSCompliant(false)]
<pARSERModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> : <@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
  internal static readonly string[] tokenNames = new string[] {
  "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator="",">
  };
</endif>
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
public override void SetState(RecognizerSharedState state)
{
    base.SetState(state);
    <grammar.delegates:{g|<g:delegateName()> .SetState(state);}; separator="\n">}

public override void SetTreeNodeStream(ITreeNodeStream input)
{
    base.SetTreeNodeStream(input);
    <grammar.delegates:{g|<g:delegateName()> .SetTreeNodeStream(input);}; separator="\n">}

public override string[] TokenNames { get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

#region Rules
<rules; separator="\n”>
#endregion Rules

<! generate rule/method definitions for imported rules so they appear to be defined in this recognizer. !>
#region Delegated rules
<grammar.delegatedRules:{ruleDescriptor}
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)>
<ruleDescriptor.name; format="id">(<ruleDescriptor.parameterScope:parameterScope()>)<!throws RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name;
format="id">(<if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope.attributes:{a|<a.name;
format="id">}; separator=" ", "><endif>; \\}) ; separator="\n">#endregion Delegated rules
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
< cyclicDFAs:{dfa | private DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;} ; separator="\n">
protected override void InitDFAs()
{
base.InitDFAs();
< cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif>;);} ; separator="\n">
}
< cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion DFA
<endif>

<if(bitsets)>
#region Follow sets
private static class Follow
{
< bitsets:{it|<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)}> ; separator="\n">
}
#endregion Follow sets
<endif>
}
>

@genericParser.members() ::= <<
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType>
input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()}>)
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input,
RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()}>)

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OnCreated();
}

/** How to generate a tree parser; same as parser except the input
 *  stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, labelType={ASTLabelType="object"}, inputStreamType="ITokenStream", rewriteElementType="IToken", filterMode=false, ...)

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<endif>
>>

class parserCtorBody() {
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<length(grammar.allImportedRules)>+1];

<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
</parserCtorBody()>

imported grammars are 'public' (can't be internal because their return scope classes must be accessible)

if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif> }

    members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc..... just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<

    partial void EnterRule_<ruleName>_fragment();
    partial void LeaveRule_<ruleName>_fragment();

    // $ANTLR start <ruleName>
    <ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)
    {
      <ruleLabelDefs(...)>
      EnterRule_<ruleName>_fragment();
      EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
      TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
      try
      {
        <block>
      }
      finally
      {
      TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
      LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
      LeaveRule_<ruleName>_fragment();
      }
    }
    // $ANTLR end <ruleName>

    insertLexerSynpreds(synpreds) ::= <<
      <insertSynpreds(synpreds)>
    >>

    insertSynpreds(synpreds) ::= <<
      <if(synpreds)
      #region Synpreds

private bool EvaluatePredicate(System.Action fragment)
{
    bool success = false;
    state.backtracking++;  
    try { DebugBeginBacktrack(state.backtracking);
        int start = input.Mark();
        try
        {
            fragment();
        }
        catch (RecognitionException re)
        {
            System.Console.Error.WriteLine("impossible: "+re);
            success = !state.failed;
            input.Rewind(start);
        } finally { DebugEndBacktrack(state.backtracking, success); }
    } finally { DebugEndBacktrack(state.backtracking, success); }
    state.backtracking--;
    state.failed=false;
    return success;
}
@endregion Synpreds
@endif

ruleMemoization(name) ::= <<
@if(memoize)
    if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
@endif
>>
/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) <returnFromRule()><endif>
>>
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()> }<endif>
>>

ruleWrapperMap ::= [
"bottomup": {<ruleWrapperBottomup()>},
"topdown":{<ruleWrapperTopdown()>},
default:""
]
ruleWrapperBottomup() ::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { <if(buildAST)>return
<endif>bottomup(); }
<endif>
>>

ruleWrapperTopdown() ::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { <if(buildAST)>return
<endif>topdown(); }
<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(ruleDescriptor.returnScope)>
partial void EnterRule_<ruleName>();
partial void LeaveRule_<ruleName>();
<ruleWrapperMap.(ruleName)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)>
<returnType(ruleDescriptor)>
<ruleName; format="id">(<ruleDescriptor.parameterScope:parameterScope()>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs(...)>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
<preamble()>}
try
{
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions:{e|catch(decl=e.decl,action=e.action)}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re)
{
ReportError(re);
Recover(input,re);
<@setErrorReturnValue()>
}
<endif>
<endif>
<endif>
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule_.<ruleName>();
<memoize()>
<ruleScopeCleanUp()>
<finally>
{
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"}; } <@postamble()>
<returnFromRule()>
}

// $ANTLR end "<ruleName>"

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
@if(grammar.grammarIsRoot)<csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>internal<endif>


// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
@if(grammar.grammarIsRoot)<csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>public<endif>


catch(decl,action) ::= <<
catch (<e.decl>)
{
<e.action>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new
<returnType(ruleDescriptor)>(<if(ruleDescriptor.returnScope.attributes)>this<endif>);
retval.Start = (<labelType>)input.LT(1);
<elseif(ruleDescriptor.returnScope)> 
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name; format="id"> = <if(a.initValue)>a.initValue<else>initValue(a.type)<endif>; 
}
<endif>
<if(memoize)>
int <ruleDescriptor.name>_StartIndex = input.Index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it|<it>_stack.Push(new <it>_scope(this));<it>_scopeInit(<it>_stack.Peek());}; separator="\n">
<ruleDescriptor.ruleScope:{it|<it.name>_stack.Push(new
<it.name>_scope(this));<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels>
:{it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<ruleDescriptor.tokenListLabels
:{it|List<<labelType>> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels>
:{it|<ASTLabelType>> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels
:[it]<labelType> <it.label.text> = default(<labelType>);}; separator="n"
>
[ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
:[it] int <it.label.text> = 0;}; separator="n"
>
[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:[it][List\<<labelType>>] list_<it.label.text> = null;]; separator="n"
>
[ruleDescriptor.charListLabels:[it][List\<int> list_<it.label.text> = null;]; separator="n"
>
>
returnsfromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
  single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
<!> retval
<endif>
<endif>
<endif>
;
%
>
ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<

partial void EnterRule_<ruleName>();
partial void LeaveRule_<ruleName>();

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]<ruleScopeSetUp()>
<ruleDeclarations()>
try
{<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
:block
<else>
int _type = <ruleName>;
int _channel = DefaultTokenChannel;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
:block
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule_<ruleName>();
<ruleScopeCleanUp()>
<memoize()>
}
// $ANTLR end "<ruleName>"
>>
/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<

public override void mTokens()
{
    <block><\n
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    try { DebugEnterSubRule(<decisionNumber>); 
    try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>); 
    <decision>
    } finally { DebugExitDecision(<decisionNumber>); } 
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>)
    {
    <alts:{a|<altSwitchCase(i,a)>}>
    }
    } finally { DebugExitSubRule(<decisionNumber>); } 
    <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    // <fileName>:<description>
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>); 
    <decision>
    } finally { DebugExitDecision(<decisionNumber>); } 
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:{a|<altSwitchCase(i,a)>}>
    }
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
}@prealt()
DebugEnterAlt(1);
<alts>
}@postalit()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
}@prealt()
DebugEnterAlt(1);
<alts>
}@postalit()
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
}@preloop()
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
}@predesicion()
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
}@postdecision()
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}}
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;
@ruleBacktrackFailure()}
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
DebugRecognitionException(eee<decisionNumber>);
}@earlyExitException()
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:
;
}
} finally { DebugExitSubRule(<decisionNumber>); }
@foreachloop()
>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
@foreachloop() try { DebugEnterSubRule(<decisionNumber>); while (true)
{
int alt<decisionNumber>=<maxAlt>;
@foreachpredecision() try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);<decision>
} finally { DebugExitDecision(<decisionNumber>); }
@foreachpostdecision() switch ( alt<decisionNumber> )
{
<alts:{a|<altSwitchCase(i,a)>}> default:
goto loop<decisionNumber>;
}
}
loop<decisionNumber>:
;
}
} finally { DebugExitSubRule(<decisionNumber>); }
@foreachpostloop()>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase(altNum,alt) ::= <<
case <altNum>:
    <@prealt()>
    DebugEnterAlt(<altNum>);
    <alt>
    break;\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description>
    {
        <@declarations()>
        <elements:element()> 
        <rew>
        <@cleanup()>
    }
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
norewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(it) ::= <%
    <@prematch()>
    DebugLocation(<it.line>, <it.pos>);\n>
    <it.el>\n%

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
    <if(label)> <label>=(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
    <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>
listLabel(label,elem) ::= <<
#error The listLabel template should not be used with this target.<\n>
>>
listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List\<<elemType; null={<labelType>}>\>();
list_<label>.Add(<elem>);<\n>
>>
/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<matchSetLabel()>
<endif>
if (<s>)
{
input.Consume();
<postmatchCode>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
DebugRecognitionException(mse);
<@mismatchedSetException()>
<if(LEXER)>

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Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
/><endif>
}<n>
>>

matchSetUnchecked(s,label,elementIndex,postmatchCode=false) ::= <%
<if(label)>
<matchSetLabel()><n>
<endif>
input.Consume();<n>
<if(postmatchCode)>
<postmatchCode><n>
<endif>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
%

matchSetLabel() ::= <%
<if(LEXER)>
<label>= input.LA(1);<
<else>
<label>=(<labelType>)input.LT(1);<
<endif>
%

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)>>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
<if(label)>
int <label>Start = CharIndex;<\n>
Match(<string>); <checkRuleBacktrackFailure()><\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);<\n>
<label> . Line = <label>StartLine<elementIndex>;<\n>
<label> . CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>

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wildcard(token, label, elementIndex, terminalOptions={}) ::= <<
  <if(label)>
  <label>=(<labelType>)input.LT(1);<
  <endif>
  MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
  <wildcard(...)> <listLabelElem(elem=label, elemType=labelType,...)> 
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = input.LA(1);<
  <endif>
  MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabelElem(elem=label, elemType=labelType,...)> 
>>

/** Match a rule reference by invoking it possibly with arguments 
* and a return value or values. The 'rule' argument was the 
* target rule name, but now is type Rule, whose toString is 
* same: the rule name. Now though you can access full rule 
* descriptor stuff. */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
PUSH_FOLLOW(_.<rule.name>_<ruleName>_<elementIndex>); 
  <if(label)> <label>=<endif> <if(scope)> <scope:delegateName()>.<endif> <rule.name; format="id">(<args; separator=", ")
  PopFollow(); 
  <checkRuleBacktrackFailure()>
>>

/** ids+=r */
rulerefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  <ruleRef(...)> <listLabelElem(elem=label, elemType=[<ASTLabelType>]....)> 
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
%>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
%>
// used for left-recursive rules
recRuleDefArg()
::= "int <recRuleArg()>"

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recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    <root:element()>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if (input.LA(1) == TokenTypes.Down)
    { Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()> 
    <children:element()> 
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()> 
    }
    <else>
    Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()> 
    <children:element()> 
    Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()> 
    <endif>
    >>

/** Every predicate is used as a validating predicate (even when it is 
   * also hoisted into a prediction expression).
   */
validateSemanticPredicate(pred,description) ::= <<
    if (!(<evalPredicate(...)>)
    { throw new FailedPredicateException(input, "<ruleName>", "<description>");
    }
    >>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
    int LA<decisionNumber>_k = input.LA(<k>); 
    <edges; separator="\n" else
    { <if(eotPredictsAlt)> 
    alt<decisionNumber> = <eotPredictsAlt>; 
    <else>
    <ruleBacktrackFailure()> 
    NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>); 
    DebugRecognitionException(nvae); 
    >>
throw nvae;
}

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
<else>

{<alt<decisionNumber> = <eotPredictsAlt>;}<! if no edges, don't gen ELSE !>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
	<targetState>
}
/* A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
    default:
        <if(eotPredictsAlt)>
            alt<decisionNumber>=<eotPredictsAlt>;
            break;<\n>
        <else>
            <ruleBacktrackFailure()>
            NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
            input, <k>);
            DebugRecognitionException(nvae);
            <@noViableAltException()>
            throw nvae;
        </endif>
    }<\n>
}<<

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
}<<

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
    <if(eotPredictsAlt)>
        default:
            alt<decisionNumber>=<eotPredictsAlt>;
            break;<\n>
    </endif>
}<<
dfaEdgeSwitch(labels, targetState) ::= <<
  <labels:{it|case <it>:}; separator="\n">
  {
    <targetState>
  }
  break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
  try
  {
    alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
  }
  catch (NoViableAltException nvaes)
  {
    DebugRecognitionException(nvaes);
    throw;
  }
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
  private class DFA<dfa.decisionNumber> : DFA
  {
    private const string DFA<dfa.decisionNumber>._eotS =
      "<dfa.javaCompressedEOT; wrap="\"+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>._eofS =
      "<dfa.javaCompressedEOF; wrap="\"+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>._minS =
      "<dfa.javaCompressedMin; wrap="\"+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>._maxS =
      "<dfa.javaCompressedMax; wrap="\"+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>._acceptS =
      "<dfa.javaCompressedAccept; wrap="\"+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>._specialS =
"<dfa.javaCompressedSpecial; wrap="\"\"\"">";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition: {s|"\"">}; separator=",
};

private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly short[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly short[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for (int i = 0; i < numStates; i++)
{
DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>
: base(specialStateTransition)
<endif>
{
this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}
public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}

private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)
{
    <if(LLEXER)>
    IIntStream input = _input;
    <endif>
    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
    ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
    int _s = s;
    s = -1;
    <! pull these outside the switch cases to save space on locals !>
    int LA<dfa.decisionNumber>_1 = input.LA(1);
    int index<dfa.decisionNumber>_1 = input.Index;
    switch (_s)
    {
    <dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
    <state>}; separator="\"n"}>

    default:
    break;
    }

    if (s >= 0)
    return s;

    <if(backtracking)>
    if (state.backtracking > 0) {state.failed=true; return -1;}
    <endif>
    NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>_s, input);
    dfa.Error(nvae);
    throw nvae;
    }
    <endif>
    >>

    /** A state in a cyclic DFA; it's a special state and part of a big switch on
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
  { /* get next lookahead symbol to test edges, then rewind */
    input.Rewind();
    edges; separator="elseif "
  } /* return input cursor to state before we rewound */
  input.Seek(index<decisionNumber>_1);
  break;
} >>

/** Just like a fixed DFA edge, test the lookahead and indicate what state to jump to next if successful. */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
  if ((<labelExpr>) & (predicates)) { s = <targetStateNumber>; }
>>

/** An edge pointing at end-of-token; essentially matches any char; * always jump to the target. */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
  s = <targetStateNumber>;
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred, description) ::= "(<pred>)"
evalSynPredicate(pred, description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<k>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable * somewhere. Must ask for the lookahead directly. */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<k><ge()>_<lower> && LA<decisionNumber>_<k><le()>_<upper>)%

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)<ge()>_<lower> && input.LA(<k>)<le()>_<upper>)"

le() ::= "\"\"=
ge() ::= ">

setTest(ranges) ::= <<
<ranges; separator="||"> >>

// A T T R I B U T E S

attributeScope(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
protected sealed partial class <scope.name>_<scope> {

<scope.attributes:{it|public <it.decl>;}; separator="\n”>

public <scope.name>_<scope>(<grammar.recognizerName> grammar) { OnCreated(grammar); } partial void OnCreated(<grammar.recognizerName> grammar); }

<if(scope.actions.scopeinit)>
protected void <scope.name>_<scope>_<scopeinit>( <scope.name>_<scope> scope ) {

<scope.actions.scopeinit>
}

<else>
partial void <scope.name>_<scope>_<scopeinit>( <scope.name>_<scope> scope );
<endif>

<if(scope.actions.scopeafter)>
protected void <scope.name>_<scope>_<scopeafter>( <scope.name>_<scope> scope ) {

<scope.actions.scopeafter>
}

<else>
partial void <scope.name>_<scope>_<scopeafter>( <scope.name>_<scope> scope );
<endif>

protected readonly ListStack\<<scope.name>_<scope>> <scope.name>_<scope>_<scope> = new ListStack\<<scope.name>_<scope>>();
<endif>
globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName(it) ::= "<it.name>_return"

returnType(ruleDescriptor) ::= <%
@if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
%>

/** Generate the C# type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <%
@if(referencedRule.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
%>

delegateName(it) ::= <<
@if(it.label)<it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "null". */
initValue(typeName) ::= <<
default(<typeName>)
>>
/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
    <ruleLabelType(label.referencedRule)> <label.label.text> = <initValue(ruleLabelType(label.referencedRule))>;
%>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
    <if(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
    <returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
    <ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>}
    <scope.attributes:{it|public <it.decl>;}; separator="\n">}
    <@ruleReturnMembers()>
    >>

ruleReturnBaseType() ::= <%
    <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
%>

@returnScope.ruleReturnMembers() ::= <<
    public <ruleDescriptor:returnStructName()>(<grammar.recognizerName> grammar) {OnCreated(grammar);}
    partial void OnCreated(<grammar.recognizerName> grammar);
    >>

parameterScope(scope) ::= <<
    <scope.attributes:{it|<it.decl>}; separator=" ">
    >>

parameterAttributeRef(attr) ::= <<
    <attr.name; format="id">
    >>

parameterSetAttributeRef(attr,expr) ::= <<
    <attr.name; format="id"> =<expr>;}
    >>

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
    <if(negIndex)>
    <scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
    <else>
    <if(index)>
    <scope>_stack[<index>].<attr.name; format="id">
    <else>
<else>
  <scope>_stack.Peek().<attr.name; format="id">
<endif>
<endif>
%

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;
  <else>
  <if(index)>
  <scope>_stack[<index>].<attr.name; format="id"> = <expr>;
  <else>
  <scope>_stack.Peek().<attr.name; format="id"> = <expr>;
  <endif>
  <endif>
<endif>
%

/** $x is either global scope or $x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.Count>0 && $function::name.Equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
  (<scope>!=null?((<returnType(referencedRule)>)<scope>).<attr.name; format="id">:<initValue(attr.type)>)
  <else>
  <scope>
  <endif>
<endif>
%

returnAttributeRef(ruleDescriptor, attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name; format="id">
  <else>
  <attr.name; format="id">
  <endif>
%

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name; format="id"> =<expr>;
  <else>
  <attr.name; format="id"> =<expr>;
  <endif>
%>
/** How to translate $tokenLabel */

tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Sids} or e+=expr {Se} */

listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "((<scope>!null?<scope>.Text:default(string))"
tokenLabelPropertyRef_type(scope, attr) ::= "((<scope>!null?<scope>.Type:0))"
tokenLabelPropertyRef_line(scope, attr) ::= "((<scope>!null?<scope>.Line:0))"
tokenLabelPropertyRef_pos(scope, attr) ::= "((<scope>!null?<scope>.CharPositionInLine:0))"
tokenLabelPropertyRef_index(scope, attr) ::= "((<scope>!null?<scope>.TokenIndex:0))"
tokenLabelPropertyRef_channel(scope, attr) ::= "((<scope>!null?<scope>.Channel:0))"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope, attr) ::= "((<scope>!null?((<labelType>)<scope>.Start):default(<labelType>))"
ruleLabelPropertyRef_stop(scope, attr) ::= "((<scope>!null?((<labelType>)<scope>.Stop):default(<labelType>))"

ruleLabelPropertyRef_tree(scope, attr) ::= "((<scope>!null?((<ASTLabelType>)<scope>.Tree):default(<ASTLabelType>))"

ruleLabelPropertyRef_text(scope, attr) ::= <%
    <if(TREE_PARSER)>
        ((<scope>!null?input.TokenStream.ToString(
            input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
            input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):default(string))
    <else>
    <endif>
<%>

ruleLabelPropertyRef_st(scope, attr) ::= "((<scope>!null?<scope>.Template:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */

lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "((<scope>!null?<scope>.Type:0))"

lexerRuleLabelPropertyRef_line(scope, attr) ::= "((<scope>!null?<scope>.Line:0))"

lexerRuleLabelPropertyRef_pos(scope, attr) ::= "((<scope>!null?<scope>.CharPositionInLine:-1))"

lexerRuleLabelPropertyRef_channel(scope, attr) ::=
"(<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:default(string))"

lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "retval.Tree"
rulePropertyRef_text(scope,attr) ::= <%
  <if(TREE_PARSER)>
    input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(retval.Start),
      input.TreeAdaptor.GetTokenStopIndex(retval.Start))
  <else>
    input.ToString(retval.Start,input.LT(-1))
  <endif>
%>
rulePropertyRef_st(scope,attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.Template =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  <if(backtracking)>
    if (<actions.(actionScope).synpredgate>)\n      {\n        <@indentedAction()><\n      }\n  </%
}
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:{it|<it>UL};separator="",">});
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

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/** Templates for building ASTs during tree parsing. *
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
 <block>
 <else>
 <block>
 <endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
 _first_0 = None
 _last = None
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
 <if(rewriteMode)>
 retval.tree = _first_0
 if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
     retval.tree = self._adaptor.getParent(retval.tree)
 <endif>
 })>>
>>
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = self.input.LT(1)
    _save_last_<treeLevel> = _last
    _first_<treeLevel> = None
    <if(!rewriteMode)>
    root_<treeLevel> = self._adaptor.nil()<
    <endif>
    <root:element()>
    <if(rewriteMode)>
    <finishedBacktracking({
        <if(root.el.rule)>
        if _first_<enclosingTreeLevel> is None:
            _first_<enclosingTreeLevel> = <root.el.label>.tree
        <else>
        if _first_<enclosingTreeLevel> is None:
            _first_<enclosingTreeLevel> = <root.el.label>
        <endif>
    })>
    <endif>
    <actionsAfterRoot:element()>
    <if(nullableChildList)>
    if self.input.LA(1) == DOWN:
        self.match(self.input, DOWN, None)
        <children:element()>
        self.match(self.input, UP, None)
    <else>
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)<
    <endif>
    <if(!rewriteMode)>
    self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<
    <endif>
    _last = _save_last_<treeLevel>
    >>

    // TOKEN AST STUFF

    /** ID! and output=AST (same as plain tokenRef) `cept add
     * setting of _last
     */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= ««
    _last = self.input.LT(1)
    <super.tokenRef(...)>»

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= ««
    _last = self.input.LT(1)
    <super.tokenRef(...)>»
    <if(!rewriteMode)>
    <finishedBacktracking(
        <if(terminalOptions.node)>
        <label>_tree = <terminalOptions.node>(<label>)
        <else>
        <label>_tree = self._adaptor.dupNode(<label>)
        <endif>'\n
        self._adaptor.addChild(root_<treeLevel>, <label>_tree)
    )>
    <else> <! rewrite mode !>
    <finishedBacktracking(
        if _first_<treeLevel> is None:
            _first_<treeLevel> = <label>'\n
    )>
    <endif>
»

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= ««
    <tokenRef(...)>»
    <listLabel(elem=label,...)>
»

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= ««
    _last = self.input.LT(1)
    <super.tokenRef(...)>»
    <if(!rewriteMode)>
    <finishedBacktracking(
        <if(terminalOptions.node)>
        <label>_tree = <terminalOptions.node>(<label>)
        <else>
        <label>_tree = self._adaptor.dupNode(<label>)
        <endif>'\n
        root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
    )>
    <endif>
»
/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
 wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.wildcard(...)
;if(!rewriteMode)
<finishedBacktracking{
<label>_tree = self._adaptor.dupTree(<label>)
selself._adaptor.addChild(root_<treeLevel>, <label>_tree)
}
}else< rewrite mode >!
<finishedBacktracking{
if _first_<treeLevel> is None:
_first_<treeLevel> = <label>
}
<endif>
>>

// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.matchSet(postmatchCode={
;if(!rewriteMode)
<finishedBacktracking{
<label>_tree = <terminalOptions.node>(<label>)
}else
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
selself._adaptor.addChild(root_<treeLevel>, <label>_tree)
}
<endif>
}. ...)
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)
<noRewrite(...) <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.matchSet(...)>
matchSetRuleRoot(s, label, elementIndex, debug, terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>

root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})
<endif>
}, ...)>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)> 
<finishedBacktracking({
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> <! rewrite mode !>
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>.tree
<endif>

})

/** x+=rule auto construct */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
</listLabel(label, {<label>.tree})>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)> 
<if(!rewriteMode)>
<finishedBacktracking({
root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
})
<endif>
/** ^ (x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, [label].tree)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrack(...)>}
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRootTrack(...)>}
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to */
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,scope,terminalOptions={}) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>(stream_<token>.nextNode()>
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
})
>>
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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
import stringtemplate3
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnInit() ::= <<
self.st = None
>>
@returnScope.ruleReturnMembers() ::= <<
def getTemplate(self):
    return self.st
def toString(self):
    if self.st is not None:
        return self.st.toString()
    return None
__str__ = toString
>>

@genericParser.init() ::= <<
<@super.init()>
self.templateLib = stringtemplate3.StringTemplateGroup(
    '<name>Templates', lexer='angle-bracket'
)
>>

@genericParser.members() ::= <<
<@super.members()>
def setTemplateLib(self, templateLib):
    self.templateLib = templateLib
def getTemplateLib(self):
    return self.templateLib
>>

/*! x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRef(...)>
    <listLabel(label, {...label}.st})>
>>

rewriteTemplate(alts) ::= <<
# TEMPLATE REWRITE
<if(backtracking)>
    if <actions.(actionScope).synpredgate>:
        <first(alts):rewriteTemplateAltFirst()>
        <rest(alts):{it | el<rewriteTemplateAlt(it)> }>
        <if(rewriteMode)><replaceTextInLine()><endif>
    <else>
        <first(alts):rewriteTemplateAltFirst()>
})

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replaceTextInLine() ::= <<
<if(TREE_PARSER)
self.input.getTokenStream().replace(
    self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
    self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
    retval.st
)
<else>
self.input.replace(
    retval.start.getTokenIndex(),
    self.input.LT(-1).getTokenIndex(),
    retval.st
)
<endif>
>>

rewriteTemplateAltFirst(alt) ::= <<
<if(alt.pred)>
if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
<u>
    <else>
    # <alt.description>
    retval.st = <alt.alt>
    <u>
    <endif>
>>

rewriteTemplateAlt(alt) ::= <<
<if(alt.pred)>
if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
<u>
<else>se:
    # <alt.description>
    retval.st = <alt.alt>
    <u>
    <endif>
>>

rewriteEmptyTemplate(alts) ::= <<
None
/** Invoke a template with a set of attribute name/value pairs. * Set the value of the rule’s template *after* having set * the attributes because the rule’s template might be used as * an attribute to build a bigger template; you get a self-embedded * template.
*/
rewriteExternalTemplate(name, args) ::= <%
self.templateLib.getInstanceOf("<name>"<if(args)>, attributes={<args:{a | "<a.name>": <a.value>}; separator=", ">]})<endif>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr, args) ::= <%
self.templateLib.getInstanceOf(<expr><if(args)>, attributes={<args:{a | "<a.name>": <a.value>}; separator=", ">]})<endif>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args)>, attributes={<args:{a | "<a.name>": <a.value>}; separator=", ">]})<endif>)
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
    <action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
    (<st>)["<attrName>"] = <expr>
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
    stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

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/*/ 

@outputFile.imports() ::= <<
@super.imports()>
<if(!TREE_PARSER)><! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<\n>
<endif>
>>

@genericParser.members() ::= <<
@super.members()>
-parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();

public void setTreeAdaptor(TreeAdaptor adaptor) {
  this.adaptor = adaptor;
  <grammar.directDelegates:{g|<g:delegateName()> .setTreeAdaptor(this.adaptor);}> 
}
public TreeAdaptor getTreeAdaptor() {
  return adaptor;
}
@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
@Override
public <ASTLabelType> getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
@if(!ruleDescriptor.isSynPred)  
<ruleDescriptor.tokenLabels.ruleDescriptor.wildcardTreeLabels,
  ruleDescriptor.wildcardTreeListLabels:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
@if(!ruleDescriptor.supportsLabelOptimization)  
<ruleDescriptor.allTokenRefsInRewrites 
: [it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");]; separator="\n">
<ruleDescriptor.allRuleRefsInRewrites  
: [it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");]; separator="\n">
<else>  
<ruleDescriptor.allRuleRefsInAltsWithRewrites  
: [it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");]; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites  
: [it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");]; separator="\n">
@endif>
@endif>
>>

/** When doing auto AST construction, we must define some variables:  
* These should be turned off if doing rewrites. This must be a "mode"  
* as a rule could have both rewrite and AST within the same alternative  
* block. */
@alt.declarations() ::= <<
@if(autoAST)  
@if(outerAlt)  
@if(!rewriteMode & !ruleDescriptor.isSynPred)  
root_0 = (<ASTLabelType>)adaptor.nil();
>>
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. *
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefTrack(...>)
<listLabel(elem=label, ...)> 
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRootTrack(...>)
<listLabel(elem=label, ...)> 
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)> 
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<rulerefTrack(...>)
<listLabel(label, [<label>.getTree()])> 
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<rulerefRuleRoot(...)>
<<
<endif>
<endif>
<endif>
>>
/** ^{(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRefRuleRootTrack(...)>
<llabel>.getTree())>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels, referencedWildcardListLabels]; separator="",">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
<endif>
<prevRuleRootRef()>.tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),
retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels :
{:it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"., <it>);}; separator="\n"
>
<referencedTokenListLabels :
{:it | RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"., list_<it>);}; separator="\n"
>
<referencedWildcardLabels :
{:it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>"., <it>);}; separator="\n"
>
<referencedWildcardListLabels :
{:it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>"., list_<it>);}; separator="\n"
>
<referencedRuleLabels :
{:it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>"., <it>!=null?<it>.getTree():null);}; separator="\n"
>
<referencedRuleListLabels :
{:it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>"., list_<it>);}; separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="\n"> ) {
<alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();\n}> >>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="\n"> ) {
<alt>
}
<referencedElements:{el | stream_<el>.reset();\n}> >>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if (!<referencedElements:{el | stream_<el>.hasNext()}; separator="\n">) {
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="\n"> ) {
<alt>
}
<referencedElements:{el | stream_<el>.reset();\n}> >>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
<a.alt>
}

<else>
{
<a.alt>
}

}}
/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  // <fileName>:<description>
  {
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    <root:rewriteElement()>
    <children:rewriteElement()>
    adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
  }
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  @{$pregen()}
  <e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,args,terminalOptions={}) ::= <<
  adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
  adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
  adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,args,terminalOptions={}) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(ID ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) */
rewriteTokenRefRoot := rewriteTokenLabelRefRoot
root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,elementIndex,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,args,terminalOptions)>);
>>

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(<createImaginaryNode(token,args,terminalOptions)>,
root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reuseing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>) adaptor.becomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

createImaginaryNode(tokenType, args, terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
  <! new MethodNode(IDLabel, args) !>
  new <terminalOptions.node>({tokenType}<if(args), args; separator="","><endif> )
  <else>
  (<ASTLabelType>)adaptor.create({tokenType}, <args; separator="","><if(!args)"{tokenType}"<endif>
  <endif>
  %>

createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <%
  <if(terminalOptions.node)>
  new <terminalOptions.node>(stream_<token>.nextToken()<if(args), args; separator="","><endif> )
  <else>
  <if(args)> <! must create new node from old !>
  adaptor.create({token}, <args; separator="",">)
  <else>
  stream_<token>.nextNode()
  <endif>
  <endif>
  %>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/AST.stg
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/*

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/gUnitTestSuite.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/JUnitCodeGen.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/gUnitExecutor.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/Interp.java

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*/
objcTypeInitMap ::= [
    "int"         : "0",        // Integers     start out being 0
    "long"       : "0",        // Longs        start out being 0
    "float"      : "0.0",      // Floats       start out being 0
    "double"     : "0.0",      // Doubles      start out being 0
    "BOOL"       : "NO",       // Booleans     start out being Antlr ObjC for false
    "byte"       : "0",        // Bytes        start out being 0
    "short"      : "0",        // Shorts       start out being 0
    "char"       : "0",        // Chars        start out being 0
    "id"         : "nil",      // ids          start out being nil
    default      : "nil"       // anything other than an atomic type
]

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "True":"true",
    "False":"false",
    "true":"YES",
    "false":"NO",
    default:"NO"
]

className() ::= "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>"
leadIn(type) ::= <<
/** \file
 * This <type> file was generated by $ANTLR version <ANTLRVersion>
 * - From the grammar source file : <fileName>
 * - On : <generatedTimestamp>
</if(LEXER)>
* - for the lexer : <name>Lexer
<endif>
</if(PARSER)>
* - for the parser : <name>Parser
<endif>
<if(TREE_PARSER)>
  * - for the tree parser: <name>TreeParser
<endif>
 *
 * Editing it, at least manually, is not wise.
 *
 * ObjC language generator and runtime by Alan Condit, acondit\hereisanat\ipns\dotgoeshere\com.
 *
 *
/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile( LEXER,
  PARSER,
  TREE_PARSER,
  actionScope,
  actions,
  docComment,
  recognizer,
  name,
  tokens,
  tokenNames,
  rules,
  cyclicDFAs,
  bitsets,
  buildTemplate,
  buildAST,
  rewriteMode,
  profile,
  backtracking,
  synpreds,
  memoize,
  numRules,
  fileName,
  ANTLRVersion,
  generatedTimestamp,
  trace,
  scopes,
  superClass,
  literals
) ::= <<
  <leadIn("OBJC source")>
  */
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
/* =============================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */
<endif> !>

/* -----------------------------------------
* Include the ANTLR3 generated header file.
*/
#import "<name><!if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>.h"
<actions.(actionScope).postinclude>
/* ----------------------------------------- */

docComment>

<if(literals)>
/** String literals used by <name> that we must do things like MATCHS() with.
*  C will normally just lay down 8 bit characters, and you can use L"xxx" to
*  get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
*  we perform this little trick of defining the literals as arrays of UINT32
*  and passing in the address of these.
*/
<literals:{it | static ANTLR3_UCHAR  lit_<i>[]  = <it>;}; separator="\n">
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
genratedTimestamp,
trace,
scopes,
superClass,
literals
) ::= <<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

/*@imports*/
<actions.(actionScope).preincludes>
/*
* Standard antlr OBJC runtime definitions
*/
#import \<Cocoa/Cocoa.h>
#import \<ANTLR/ANTLR.h>
/* End of standard antlr3 runtime definitions
*/
<actions.(actionScope).includes>
/*@end*/

@if(LEXER)>
<lexerHeaderFile(...)>
@end>
@if(PARSER)>
<parserHeaderFile(...)>
@end>
@if(TREE_PARSER)>
<treeParserHeaderFile(...)>
@end>
<docComment>
>>

lexerHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass="Lexer"
) ::= <<
<if(actions.(actionScope).header)>
/*
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */
/*
<endif>

/* Start cyclicDFAInterface */
<cyclicDFAs:cyclicDFAInterface()>
#pragma mark Rule return scopes Interface start
<rules:{rule | <rule.ruleDescriptor:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}>>
#pragma mark Rule return scopes Interface end
#pragma mark Tokens
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined 1
#ifdef EOF
EOF
#endif
/* End cyclicDFAInterface */
</cyclicDFAs:cyclicDFAInterface()>
/* End cyclicDFAInterface */
</if(actions.(actionScope).header)>
#undef EOF
#endif
/* interface className */
@interface className(): superClass { // line 283
@end /* end of className interface */

headerReturnType(ruleDescriptor) ::= "<ruleDescriptor{returnType()}>"
headerReturnScope(ruleDescriptor) ::= "<returnScopeInterface(\ldots)>"

if(!r.ruleDescriptor.isSynPred)
void
else
@interfaceDescriptor{returnType()}
@end
else
@interfaceDescriptor{returnType()}
@end

// Produce the lexer output
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    filterMode,
    labelType="CommonToken",
    superClass="Lexer"
) ::= <<
<cyclicDFAs:cyclicDFA()>
/** As per Terence: No returns for lexer rules! */
<!
#pragma mark Rule return scopes start
<rules:{rule | <rule.ruleDescriptor:{ruleDescriptor |
<returnScopeImplementation(scope=ruleDescriptor.returnScope)>}>
}>
#pragma mark Rule return scopes end
!>
@implementation <grammar.recognizerName> // line 330
+ (void) initialize
{
[BaseRecognizer setGrammarFileName:@"<fileName>"];
}
+ (NSString *) tokenNameForType:(NSInteger)aTokenType
{
return [[self getTokenNames] objectAtIndex:aTokenType];
}
+ (<grammar.recognizerName> *)new<grammar.recognizerName>WithCharStream:(id\<CharStream>)anInput
{
return [[<grammar.recognizerName> alloc] initWithCharStream:anInput];
}
- (id) initWithCharStream:(id\<CharStream>)anInput
{
self = [super initWithCharStream:anInput State:[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1]];
if ( self != nil ) {
<if(memoize)>
if ( state.ruleMemo == nil ) {
state.ruleMemo = [[RuleStack newRuleStackWithSize:<numRules>+1] retain];
}
if ( [state.ruleMemo count] == 0 ) {
// initialize the memoization cache - the indices are 1-based in the runtime code!
<! [state.ruleMemo addObject:[NSNull null]]; /* dummy entry to ensure 1-basedness. */ !>
for (NSInteger i = 0; i \< <numRules>; i++) {
[state.ruleMemo addObject:[HashRule newHashRuleWithLen:17]];
}
}
<endif>
<synpreds:{pred | <lexerSynpred(name=pred)>};separator="\n">
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
<actions.lexer.init>

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return self;
}

-(void)dealloc
{
    <cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
    <actions.lexer.dealloc>
    [super dealloc];
}

/* ObjC Start of actions.lexer.methods */
<actions.lexer.methods>
/* ObjC end of actions.lexer.methods */
/* ObjC start methods() */
<@methods();>
/* ObjC end methods() */

@if(actions.lexer.reset>
- (void) reset
{
    <actions.lexer.reset>
    [super reset];
}
<endif>

@if(filterMode)
<filteringNextToken();>
<endif>
/* Start of Rules */
<rules; separator="\n">
@end /* end of <grammar.recognizerName> implementation line 397 */

/** A override ofLexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
    - (id<Token>) nextToken
    {
        while (YES) {
            if ([input LA:1] == CharStreamEOF) {
                return [<labelType> eofToken];
            }
        }
    }

@end /* end of <grammar.recognizerName> implementation line 397 */

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
    - (id<Token>) nextToken
    {
        while (YES) {
            if ([input LA:1] == CharStreamEOF) {
                return [<labelType> eofToken];
            }
        }
    }

@end /* end of <grammar.recognizerName> implementation line 397 */

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
    - (id<Token>) nextToken
    {
        while (YES) {
            if ([input LA:1] == CharStreamEOF) {
                return [<labelType> eofToken];
            }
        }
    }

@end /* end of <grammar.recognizerName> implementation line 397 */

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
    - (id<Token>) nextToken
    {
        while (YES) {
            if ([input LA:1] == CharStreamEOF) {
                return [<labelType> eofToken];
            }
        }
    }

@end /* end of <grammar.recognizerName> implementation line 397 */

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
    - (id<Token>) nextToken
    {
        while (YES) {
            if ([input LA:1] == CharStreamEOF) {
                return [<labelType> eofToken];
            }
        }
    }
state.token = nil;
state.channel = TokenChannelDefault;
state.tokenStartCharIndex = input.index;
state.tokenStartCharPositionInLine = input.charPositionInLine;
state.tokenStartLine = input.line;
state.text = nil;
@try {
    NSInteger m = [input mark];
    state.backtracking = 1; /* means we won't throw slow exception */
    state.failed = NO;
    [self mTokens];
    state.backtracking = 0;
    /* mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. */
    if ( state.failed ) {
        [input rewind:m];
        [input consume]; /* advance one char and try again */
    } else {
        [self emit];
        return state.token;
    }
}
@catch (RecognitionException *re) {
    // shouldn't happen in backtracking mode, but...
    [self reportError:re];
    [self recover:re];
}
}

- (void)memoize:(id<IntStream>*)anInput
    RuleIndex:(NSInteger)ruleIndex
    StartIndex:(NSInteger)ruleStartIndex
{
    if ( state.backtracking > 1 ) [super memoize:anInput RuleIndex:ruleIndex StartIndex:ruleStartIndex];
}

- (BOOL)alreadyParsedRule:(id<IntStream>*)anInput RuleIndex:(NSInteger)ruleIndex
{
    if ( state.backtracking > 1 ) return [super alreadyParsedRule:anInput RuleIndex:ruleIndex];
    return NO;
}

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"
parserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
umRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
literals,
superClass="Parser"
) ::= <<
/* parserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\TokenStream","....")>
>>

treeParserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
literals,
superClass="TreeParser"
) ::= <<
/* treeParserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TreeNodeStream>";...)> >>

genericParserHeaderFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals,
inputStreamType
) ::= <<
<if(actions.(actionScope).header)>
/* ==============================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action. */

#ifndef ANTLR3TokenTypeAlreadyDefined
#define ANTLR3TokenTypeAlreadyDefined

typedef enum {
    ANTLR_EOF = -1,
    INVALID,
    EOR,
    DOWN,
    UP,
    MIN
} ANTLR3TokenType;
#endif

<pragma mark Tokens>
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined 1
#ifdef EOF
#undef EOF
#endif
<tokens:{it | #define <it.name> <it.type>}; separator="\n">#endif

#pragma mark Dynamic Global Scopes globalAttributeScopeInterface
<scopes:{it | #if(it.isDynamicGlobalScope)><globalAttributeScopeInterface(scope=it)><endif>}>
#pragma mark Dynamic Rule Scopes ruleAttributeScopeInterface
<rules:{rule |
    <rule.ruleDescriptor:ruleDescriptor | <ruleAttributeScopeInterface(scope=ruleDescriptor.ruleScope)>}>}
#pragma mark Rule Return Scopes returnScopeInterface
<rules:{rule |<rule.ruleDescriptor:{ ruleDescriptor |
    <returnScopeInterface(scope=ruleDescriptor.returnScope)>}>}

/* Interface grammar class */
@interface <className()> <@superClassName> : <superClass><@end> { /* line 572 */
#pragma mark Dynamic Rule Scopes ruleAttributeScopeDecl
<rules:{rule |
    <rule.ruleDescriptor.ruleScope:ruleAttributeScopeDecl(scope=rule.ruleDescriptor.ruleScope)>}>}
#pragma mark Dynamic Global Rule Scopes globalAttributeScopeMemVar
<scopes:{it | #if(it.isDynamicGlobalScope)><globalAttributeScopeMemVar(scope=it)><endif>}>

/* ObjC start of actions.(actionScope).memVars */
<actions.(actionScope).memVars>
/* ObjC end of actions.(actionScope).memVars */
/* ObjC start of memVars */
<@memVars()>
/* ObjC end of memVars */
/* ObjC start of actions.(actionScope).properties */
<actions.(actionScope).properties>
/* ObjC end of actions.(actionScope).properties */
/* ObjC start of properties */
<@properties()>
/* ObjC end of properties */

+(void)initialize;
+(<className()>)new<className>():(<inputStreamType>)aStream;
/* ObjC start of actions.(actionScope).methodsDecl */
<actions.(actionScope).methodsDecl>
/* ObjC end of actions.(actionScope).methodsDecl */

/* ObjC start of methodsDecl */
<@methodsDecl()>
/* ObjC end of methodsDecl */

<rules:{rule |
  (rule.ruleDescriptor:{ruleDescriptor}|<returnType()>)<if(!rule.ruleDescriptor.isSynPred)<rule.ruleName><else><rule.ruleName>_fragment<endif><if(rule.ruleDescriptor.parameterScope)<rule.ruleDescriptor.parameterScope: parameterScope()><endif>; }; separator="\n">"

@end /* end of <className()> interface */
>>

parser( grammar, 
  name, 
  scopes, 
  tokens, 
tokenNames, 
rules, 
numRules, 
bitsets, 
ASTLabelType="CommonTree", 
superClass="Parser", 
labelType="CommonToken", 
members={<actions.parser.members>} ) ::= <<
genericParser(inputStreamType="id\TokenStream", rewriteElementType="Token", ...)>>
>>

/** How to generate a tree parser; same as parser except the input 
 * stream is a different type.

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treeParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    globalAction,
    rules,
    numRules,
    bitsets,
    filterMode,
    labelType={ <ASTLabelType> },
    ASTLabelType="CommonTree",
    superClass={ if(filterMode) if(buildAST) TreeRewriter else TreeFilter endif else TreeParser endif },
    members={ <actions.treeparser.members> }
) ::= <<
<genericParser(inputStreamType="id\TreeNodeStream", rewriteElementType="Node", ...)> >>

/** How to generate a parser */
genericParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    cyclicDFAs,       // parser init -- initializes the DFAs
    bitsets,
    labelType,
    ASTLabelType,
    superClass,
    members,
    filterMode,
    rewriteElementType,
    inputStreamType
) ::= <<
<cyclicDFAs:cyclicDFA()>>

#pragma mark Bitsets
<bitsets: [it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)> ]>

#pragma mark Dynamic Global globalAttributeScopeImplementation
<scopes: [it | if(it.isDynamicGlobalScope) <globalAttributeScopeImplementation(scope=it)> endif ]>

#pragma mark Dynamic Rule Scopes ruleAttributeScopeImplementation
<rules: [rule |
    <rule.ruleDescriptor: [ ruleDescriptor | <ruleAttributeScopeImplementation(scope=ruleDescriptor.ruleScope)> ]]> ]>
#pragma mark Rule Return Scopes returnScopeImplementation

@implementation <grammar.recognizerName> // line 637

/* ObjC start of ruleAttributeScope */
#pragma mark Dynamic Rule Scopes ruleAttributeScope
<rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScope()>}>
/* ObjC end of ruleAttributeScope */

#pragma mark global Attribute Scopes globalAttributeScope
/* ObjC start globalAttributeScope */
<scopes:{it | <if(it.isDynamicGlobalScope)>globalAttributeScope()</if>}> /* ObjC end globalAttributeScope */

/* ObjC start actions.(actionScope).synthesize */
<actions.(actionScope).synthesize>
/* ObjC start synthesize() */
@synthesize()

+(void)initialize
{
    #pragma mark Bitsets
    <bitsets:{it | <bitsetInit(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}> [BaseRecognizer setTokenNames:[[AMutableArray arrayWithObjects:@"<invalid>", @"<EOR>", @"<DOWN>", @"<UP>", <tokenNames:{it | @<it>}; separator=" ", wrap=" 
 ", nil] retain]];
    [BaseRecognizer setGrammarFileName:@"<fileName>"];
    <synpreds:{pred | <synpred(pred)>}>}

+(<grammar.recognizerName> *)&new<grammar.recognizerName>:(<inputStreamType>)aStream
{
    <if(PARSER)> return [[<grammar.recognizerName> alloc] initWithTokenStream:aStream];
    <else>! TREE_PARSER !>
        return [[<grammar.recognizerName> alloc] initWithStream:aStream];
    <endif>
}

<if(PARSER)>  
- (id) initWithTokenStream:(<inputStreamType>)aStream
{
    if ( self != nil ) {  
        <else>! TREE_PARSER !>
            self = [super initWithStream:aStream State:nil];
            <else>! TREE_PARSER !>
                self = [super initWithStream:aStream State:nil];
        <else>! TREE_PARSER !>
            self = [super initWithStream:aStream];
        <else>! TREE_PARSER !>
    <else>! TREE_PARSER !>

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if ( self != nil ) {
@end
<! <parserCtorBody()> !>
@cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
@scopes:{it | <if(it.isDynamicGlobalScope)<globalAttributeScopeInit(scope=it)><endif> }
@rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit()> }
/* start of actions-actionScope-init */
@actions.(actionScope).init
/* start of init */
@@@init()
return self;
}

- (void) dealloc
{
@cyclicDFAs:{dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
@scopes:{it | <if(it.isDynamicGlobalScope)<globalAttributeScopeDealloc(scope=it)><endif> }
@actions.(actionScope).dealloc
@@@dealloc()
[super dealloc];
}

/* ObjC start actions.(actionScope).methods */
@actions.(actionScope).methods
/* ObjC end actions.(actionScope).methods */
/* ObjC start methods() */
@@@methods()
/* ObjC end methods() */
/* ObjC start rules */
@rules; separator="\n"
/* ObjC end rules */

@end /* end of <grammar.recognizerName> implementation line 692 */<\n>

parserCtorBody() ::= <<
@if(memoize)>> /* parserCtorBody */
@if(grammar.grammarIsRoot)>
state.ruleMemo = [[RuleStack newRuleStack:<numRules>+1] retain];<\n> <! index from 1..n !>
@end
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName>();}; separator="\n>
>>
/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc..., just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
/*/ 
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>_fragment
- (void) <ruleName>_fragment
{
<ruleLabelDefs()>
@if(trace)
    [self traceIn:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
@try {
    <block>
}
@finally {
    [self traceOut:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
}
<else>
    <block>
@endif
} // $ANTLR end <ruleName>_fragment
>>

synpred(name) ::= <<
SEL <name>Selector = @selector(<name>_fragment);
<! // $ANTLR start <name>
- (BOOL) <name>
{
    state.backtracking++;
    <*>start()>
    NSInteger start = [input mark];
    @try {
        [self <name>_fragment]; // can never throw exception
    }
    @catch (RecognitionException *re) {
        NSLog(@"impossible: %@\n", re.name);
    }
    BOOL success = (state.failed == NO);
    [input rewind:start];
    <*>stop()>
    state.backtracking--;
    state.failed=NO;
    return success;
>>
lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
#if(memoize)
if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return <ruleReturnValue>(); }
#endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.failed ) return <ruleReturnValue>();
#endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue>(); }
#endif
>>

/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{ 
#if(trace)
[self traceIn:"<ruleName>" Index:<ruleDescriptor.index>];
#endif
#if(trace)
NSLog("enter <ruleName> % @ failed=% @ backtracking=%d", [input LT:1],
(state.failed==YES)?"YES":@"NO", state.backtracking);
#endif
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleDescriptor.actions.init>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
}} // $ANTLR end <name> <\n> !>

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
#if(memoize)
if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return <ruleReturnValue>(); }
#endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.failed ) return <ruleReturnValue>();
#endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue>(); }
#endif
>>

/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{ 
#if(trace)
[self traceIn:"<ruleName>" Index:<ruleDescriptor.index>];
#endif
#if(trace)
NSLog("enter <ruleName> % @ failed=% @ backtracking=%d", [input LT:1],
(state.failed==YES)?"YES":@"NO", state.backtracking);
#endif
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleDescriptor.actions.init>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
}} // $ANTLR end <name> <\n> !>

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
#if(memoize)
if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return <ruleReturnValue>(); }
#endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.failed ) return <ruleReturnValue>();
#endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue>(); }
#endif
>>

/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{ 
#if(trace)
[self traceIn:"<ruleName>" Index:<ruleDescriptor.index>];
#endif
#if(trace)
NSLog("enter <ruleName> % @ failed=% @ backtracking=%d", [input LT:1],
(state.failed==YES)?"YES":@"NO", state.backtracking);
#endif
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleDescriptor.actions.init>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
}} // $ANTLR end <name> <\n> !>

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
#if(memoize)
if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return <ruleReturnValue>(); }
#endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.failed ) return <ruleReturnValue>();
#endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue>(); }
#endif
>>

/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{ 
#if(trace)
[self traceIn:"<ruleName>" Index:<ruleDescriptor.index>];
#endif
#if(trace)
NSLog("enter <ruleName> % @ failed=% @ backtracking=%d", [input LT:1],
(state.failed==YES)?"YES":@"NO", state.backtracking);
#endif
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleDescriptor.actions.init>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
}} // $ANTLR end <name> <\n> !>

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
#if(memoize)
if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return <ruleReturnValue>(); }
#endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.failed ) return <ruleReturnValue>();
#endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
#if (backtracking)
if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue>(); }
#endif
>>

/** How to generate code for a rule.
* The return type aggregates are declared in the header file (headerFile template)
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/*
* $ANTLR start <ruleName>
* <fileName>:<description>
*/
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{ 
#if(trace)
[self traceIn:"<ruleName>" Index:<ruleDescriptor.index>];
#endif
#if(trace)
NSLog("enter <ruleName> % @ failed=% @ backtracking=%d", [input LT:1],
(state.failed==YES)?"YES":@"NO", state.backtracking);
#endif
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleDescriptor.actions.init>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
<ruleCleanUp()>
<@preamble()>
@try {
<ruleMemoization(name=ruleName)>
<ruleLabelDefs()>
:block>
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```c
if(exceptions)
    exceptions: {[<catch(decl=e.decl,action=e.action)><ln>]}
else if(!emptyRule) if(actions.(actionScope).rulecatch)
    actions.(actionScope).rulecatch
else
    @catch (RecognitionException *re) {
        [self reportError:re];
        [self recover:input Exception:re];
        [@setErrorReturnValue()]
    }<ln>
<endif><endif><endif>
@finally {
    @[trace] [self traceOut:""<ruleName>" Index:<ruleDescriptor.index>];<endif>
    [memoize()]
    [ruleScopeCleanUp()]
    [finally]
}<finally>
/* $ANTLR end <ruleName> */

finalCode(finalBlock) ::= <<
    {
        <finalBlock>
    }
>>
catch(decl,action) ::= <<
    @[catch (<e.decl>) ] {
        <e.action>
    }
>>
ruleDeclarations() ::= <<
    /* ruleDeclarations */
    [+if(ruleDescriptor.hasMultipleReturnValues)]
    <returnType()>() retval = [ruleDescriptor:returnStructName() new<ruleDescriptor:returnStructName()>()];
    [retval setStart:[input LT:1]]<ln>
    [else]
    [ruleDescriptor:returnScope.attributes: [ a | <a.type> <a.name> = [+if(a.initValue)<a.initValue>else><initValue(a.type)><endif>; ]>
    [endif]
    [if(memoize)]
    [NSInteger <ruleDescriptor.name>_StartIndex = input.index;
```
ruleScopeSetUp() ::= <<
/* ruleScopeSetUp */
<ruleDescriptor.useScopes:{it | [<it>_stack push:[<it>_Scope new<it>_Scope]];}>;
<ruleDescriptor.ruleScope:{it | [<it.name>_stack push:[<it.name>_Scope new<it.name>_Scope]];}>;
>>

ruleScopeCleanUp() ::= <<
/* ruleScopeCleanUp */
<ruleDescriptor.useScopes:{it | [<it>_stack pop];}; separator="\n">
<ruleDescriptor.ruleScope:{it | [<it.name>_stack pop];}; separator="\n">
>>

ruleLabelDefs() ::= <%
/* ruleLabelDefs entry */<"\n">
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it |<labelType> *<it.label.text> = nil;}; separator="\n"</"\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.wildLabelDefs; separator="\n">
<ruleDescriptor.wildcardTreeListLabels]
 :{it | AMutableArray *list._<it.label.text> = nil;}; separator="\n"</"\n">
<ruleDescriptor.ruleListLabels,ruleLabelDef(); separator="\n"</"\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n"</"\n">
>%

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it |<labelType> *<it.label.text>=nil;}; separator="\n"</"\n">
<ruleDescriptor.charLabels:{it |NSInteger <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 :{it | AMutableArray *list._<it.label.text> = nil;}; separator="\n"</"\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it | AMutableArray *list._<it.label.text> = nil;}; separator="\n"</"\n">
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>
ruleCleanUp() ::= <<
/* token+rule list labels */
<\[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels\]:{it |\[list_<it.label.text> release\];}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[retval setStop:[input LT:-1]];<\n>
<endif><endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) [self memoize:input RuleIndex:<ruleDescriptor.index>
StartIndex:<ruleDescriptor.name>_StartIndex];
<endif><endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
// $ANTLR start "<ruleName>"
- (void)
m<ruleName><if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>
{
//<if(trace)>
//<self traceIn:@"<ruleName>" Index:<ruleDescriptor.index>;<endif>
<if(trace)>NSLog("enter <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
[input LA:1],
self.line,
self.charPositionInLine,
(state.failed=YES) ? @"YES" : @"NO",
state.backtracking);
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
@try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
NSInteger _type = <ruleName>;
NSInteger _channel = TokenChannelDefault;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>

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/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
    <block>\n
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>::<description> // block
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
@@predecision()
<decision>
@@postdecision()
@@prebranch()
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>>}
}<@@postbranch()
>>
/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:\description> //ruleblock
NSInteger alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}>}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:\description> //ruleBlockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:\description> //blockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:\description> //positiveClosureBlock
NSInteger cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do {
    NSInteger alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i, a)>}>}
        default:
            if ( cnt<decisionNumber> >= 1 )
                goto loop<decisionNumber>;
}
EarlyExitException *eee =
    [EarlyExitException newException:input decisionNumber:<decisionNumber>];
@@earlyExitException()
    @throw eee;
}
cnt<decisionNumber>++;
} while (YES);
loop<decisionNumber>:
@@postloop()
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 0 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    <decls>
    @@preloop()
do {
    NSInteger alt<decisionNumber>=<maxAlt>;
    @@predecision()
    <decision>
    @@postdecision()
    switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}>
    default :
        goto loop<decisionNumber>;
    }
} while (YES);
loop<decisionNumber>:
@@postloop()
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number.  A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum, alt) ::= <<
case <altNum> : ;
  <@prealt()>
  <alt>
    break;<\n>
  >>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description> // alt
  {
    <@declarations()>
    <elements:element()>
    <rew>
    <@cleanup()>
  } >>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= << <@prematch()><\n><e.el><\n> >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)> <label>=(<labelType> *)</endif>[self match:input TokenType:<token>
  Follow:FOLLOW_<token>_in_<ruleName><elementIndex>]; <checkRuleBacktrackFailure()>
  >>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...)>;
  <listLabel(elem=label,...)>
  >>

listLabel(label,elem) ::= <<
  if (list_<label> == nil) list_<label> = [[A|\MutableArray arrayWithCapacity:5] retain];
  [list_<label> addObject:<elem>];<\n>
  >>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>NSInteger <label> = [input LA:1];<\n><endif>
  [self matchChar:<char>]; <checkRuleBacktrackFailure()><\n>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)><label> = [input LA:1];<
><endif>
[self matchRangeFromChar:<a> to:<b>]; <checkRuleBacktrackFailure>()
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> = [input LA:1];<
>else
<label> = (<labelType> *)[input LT:1]; /* matchSet */<
<endif><endif>
if (<s>) {
    [input consume];
    <postmatchCode>
    <if(!LEXER)>
    [state setIsErrorRecovery:NO];
    <endif>
    <if(!backtracking)>state.failed = NO;<
    } else {
    <ruleBacktrackFailure()>
    MismatchedSetException *mse = [MismatchedSetException newException:nil stream:input];
    #@mismatchedSetException()>
    <if(LEXER)>
    <if(label)>
    mse.c = <label>;
    <endif>
    [self recover:mse];
    @throw mse;
    <else>
    @throw mse;
    <! use following code to make it recover inline; remove throw mse;
    [self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>]; !>
    <endif>
}<<
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
@listLabel(elem=label,...)>
>>
/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
  <if(label)>
  NSInteger <label>Start = input.index;
  [self matchString:<string>]; <checkRuleBacktrackFailure()>
  NSInteger StartLine<elementIndex> = self.line;
  NSInteger <label>StartCharPos<elementIndex> = self.charPositionInLine;
  <label> = [[labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault
  Start:<label>Start Stop:input.index] retain];
  [self setLine:<label>StartLine<elementIndex>];
  [self setCharPositionInLine:<label>StartCharPos<elementIndex>];
  <else>
  [self matchString:<string>]; <checkRuleBacktrackFailure()>
  <endif>
> >>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)>
  <label> = (<labelType> *)[input LT:1];<
  <endif>
  [self matchAny:input]; <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  wildcard(...)>
  <listLabel(elem=label,...)> 
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  NSInteger <label> = [input LA:1];<
  <endif>
  [self matchAny:input]; <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  wildcardChar(...)>
  <listLabel(elem=label,...)> 
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ruleRef */
[self pushFollow:FOLLOW_<rule.name> in <ruleName><elementIndex>];
<label> = <endif>[self <if>(scope)<scope:delegateName()> <endif><rule.name><if>(args)>:<first(args)> <rest(args)> { a | arg<i>:<rest(args)> } separator=" " <endif>;]
[self popFollow];
<checkRuleBacktrackFailure()>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)> <listLabel(elem=label,...)> 

/** A lexer rule reference. *
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff. */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)> 
NSInteger <label>Start<elementIndex> = input.index;
[self m<rule.name><if(args)>:<args; separator=" :"><endif>]; <checkRuleBacktrackFailure()>
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self <if>(scope)<scope:delegateName()> <endif>m<rule.name><if(args)>:<args; separator=" :"><endif>]; 
<checkRuleBacktrackFailure()>
</if>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)> <listLabel(elem=label,...)> 

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)> 
NSInteger <label>Start<elementIndex> = input.index;
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure()>
<labelType> <label> = [[<labelType> newToken:input Type:TokenTypeEOF Channel:TokenChannelDefault Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= ";
recRuleAltPredicate(ruleName,opPrec) ::= ";<recRuleArg()><opPrec>
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/*** match ^(root children) in tree parser **/*
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
</if(nullableChildList)>
if ( [input LA:1] == DOWN ) {
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
} <else>
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
</endif>

/*** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    @throw [FailedPredicateException newException:@"<ruleName>" predicate:@"<description>" stream:input];
}

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
    alt<decisionNumber> = eotPredictsAlt;
<else>
    <ruleBacktrackFailure()>

```
NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber>
 stream:input];
 nvae.c = LA<decisionNumber>_<stateNumber>;
 @@noViableAltException()
 @throw nvae;<
>
@end

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
 dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
 NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<

<edges; separator="nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
 dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
 NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
 <edges; separator="nelse "><

@if(eotPredictsAlt)
 <if(!edges)
 alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
 <else>
 else {
 alt<decisionNumber> = <eotPredictsAlt>;
 }<

@end

/** An accept state indicates a unique alternative has been predicted */
 dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
 dfaEdge(labelExpr, targetState, predicates) ::= <<
 if ( (<labelExpr>) @if(predicates)@&@ (<predicates>)@endif) }
 <targetState>
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
 unichar charLA<decisionNumber> = [input LA:<k>];
 switch (charLA<decisionNumber>) {
    <edges; separator="\n">\n 
    default: ;
    <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>;
    <else>
        <ruleBacktrackFailure()>
        NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber>
            stream:input];
        nvae.c = charLA<decisionNumber>;
        @noViableAltException() 
        @throw nvae;\n    <endif>
    }\n }
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
 switch ([input LA:<k>]) { // dfaOptionalBlockStateSwitch
    <edges; separator="\n">\n }
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
 switch ([input LA:<k>]) { // dfaLoopbackStateSwitch
    <edges; separator="\n">\n <if(eotPredictsAlt)>
    default:
    alt<decisionNumber> = <eotPredictsAlt>;
    break;\n <endif>
 }\n>>

dfaEdgeSwitch(labels, targetState) ::= <<
 <labels:{it | case <it>: ;}; separator="\n">\n 
 <targetState>
 }
break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict:input];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<
#pragma mark Cyclic DFA interface start DFA<dfa.decisionNumber>
@interface DFA<dfa.decisionNumber> : DFA {
    
+ (DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)theRecognizer;
- initWithRecognizer:(BaseRecognizer *)recognizer;
@end /* end of DFA<dfa.decisionNumber> interface */

#pragma mark Cyclic DFA interface end DFA<dfa.decisionNumber><
>>

/** Used in lexer/parser implementation files */
/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can’t use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we’re stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
#pragma mark Cyclic DFA implementation start DFA<dfa.decisionNumber>
@implementation DFA<dfa.decisionNumber>
const static NSInteger dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
    {
        <dfa.eot; wrap="\n " , separator="", null="-1">;
    };
const static NSInteger dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
    {
        <dfa.eof; wrap="\n " , separator="", null="-1">;
    };
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
    {
        <dfa.min; wrap="\n " , separator="", null="-1">;
    };
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
    {
        <dfa.max; wrap="\n " , separator="", null="-1">;
    };
const static NSInteger dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
    {
        <dfa.accept; wrap="\n " , separator="", null="-1">;
    };
@end /* end of DFA<dfa.decisionNumber> */

#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber><
>>
const static NSInteger dfa<dfa.decisionNumber>_special[<dfa.numberOfStates>] =
  {<dfa.special; wrap="\n    \", separator="\", null="-1">};

 /**< Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty	    nil

<dfa.edgeTransitionClassMap.keys:{ table |
const static NSInteger dfa<dfa.decisionNumber>_T[i0][] =
  {
    <table; separator="\n    \", wrap="\n    \", null="-1"> \n  }; null="" >

const static NSInteger *dfa<dfa.decisionNumber>_transition[] =
  {
    <dfa.transitionEdgeTables:{whichTable|dfa<dfa.decisionNumber>_T<whichTable}>; separator="\n    \", wrap="\n    \n", null="nil"> 
  };

+(DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)aRecognizer
{
  return [[[DFA<dfa.decisionNumber> alloc] initWithRecognizer:aRecognizer] retain];
}

-(id) initWithRecognizer:(BaseRecognizer *) theRecognizer
{
  self = [super initWithRecognizer:theRecognizer];
  if ( self != nil ) {
    decisionNumber = <dfa.decisionNumber>;
    eot = dfa<dfa.decisionNumber>_eot;
    eof = dfa<dfa.decisionNumber>_eof;
    min = dfa<dfa.decisionNumber>_min;
    max = dfa<dfa.decisionNumber>_max;
    accept = dfa<dfa.decisionNumber>_accept;
    special = dfa<dfa.decisionNumber>_special;
    transition = dfa<dfa.decisionNumber>_transition;
  }
  return self;
}

<if(dfa.specialStateSTs)>
 /**< start dfa.specialStateSTs */
 - (NSInteger) specialStateTransition:(NSInteger)s Stream:(id<IntStream>)anInput
{
  <if(LEXER)>
    id<IntStream> input = anInput;
  <endif>
  <if(PARSER)>

</if>
id(TokenStream) input = (id(TokenStream))anInput;
<endif>

<if(TREE_PARSER)>

id(TreeNodeStream) input = (id(TreeNodeStream))anInput;
<endif>

switch (s) {
  <dfa.specialStateSTs:{state |
    case <i0> : ;<! compressed special state numbers 0..n-1 !>
    <state>}; separator="\n">
  }
<if(backtracking)>
  if ( [recognizer getBacktrackingLevel] > 0 ) { [recognizer setFailed:YES]; return -1; }<\n>
<endif>

NoViableAltException *nvae = [NoViableAltException newException:<dfa.decisionNumber> state:s
stream:recognizer.input];
  // nvae.c = s;
  /* [self error:nvae]; */ <! for debugger - do later !>
  @throw nvae;
}<\n>

- (void) dealloc
{
  //free(transition);
  [super dealloc];
}

- (NSString *) description
{
  return @"<dfa.description>";
}

@end /* end DFA<dfa.decisionNumber> implementation */
#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
    NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1];<\n>
    <! get next lookahead symbol to test edges, then rewind !>
    NSRange index<decisionNumber>_<stateNumber> = input.index;
    [input rewind];<\n>
s = -1;
edges; separator="nelse "
if (semPredState) & ! return input cursor to state before we rewound !
[input seek:index <decisionNumber>_<stateNumber>];
if ( s >= 0 )
  return s;
broad;
>>
/** Just like a fixed DFA edge, test the lookahead and indicate what
  * state to jump to next if successful.
  */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
/* cyclicDFAEdge */
if (<labelExpr><if(predicates)> && (<predicates>)<endif>) { s = <targetStateNumber>; }
>>
/** An edge pointing at end-of-token; essentially matches any char;
  * always jump to the target.
  */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>; /* eotDFAEdge */
>>
// DFA EXPRESSIONS
andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(pred, {})>"

/*
  * evalSynPredicate(pred,description) ::= "<pred>()"
  * synpreds are broken in cyclic DFA special states
  * Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
  * method in
  * DFA
  */
evalSynPredicate(pred,description) ::= 
*/
evalSynPredicate(pred,description) ::= "[recognizer <pred>]" */
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>] == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lower> &amp; LA<decisionNumber>_<stateNumber> <= <upper>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(([input LA:<k>] >= <lower>) &amp; ([input LA:<k>] <= <upper>))"

setTest(ranges) ::= <%
<ranges; separator="||">%

// ATTRIBUTES

memVars(scope) ::= <%
<scope.attributes:{a|<a.type> <a.name>;\n}; separator="\n"> %>

properties(scope) ::= <%
<scope.attributes:{a|@property (assign, getter=get<a.name>, setter=set<a.name>;) <a.type> <a.name>;\n}; separator="\n"> %>

methodsDecl(scope) ::= <%
<scope.attributes:{a|- (<a.type>)get<a.name> { return( <a.name> ); \}\n}- (void)set<a.name>:(<a.type>)aVal { <a.name> = aVal; \}\n}; separator="\n"> %>

synthesize(scope) ::= <%
<scope.attributes:{a|@synthesize <a.name>;}; separator="\n"> %>

methods(scope) ::= <%
<scope.attributes:{a|
- (<a.type>)get<a.name> { return( <a.name> ); \}
- (void)set<a.name>:(<a.type>)aVal { <a.name> = aVal; \}
}; separator="\n"> %>

globalAttributeScopeInterface(scope) ::= <%
/* globalAttributeScopeInterface */
@interface <scope.name>_Scope : SymbolsScope {
@if(scope.attributes)
<memVars(scope)>
@endif
} <\n
@if(scope.attributes)
/* start of globalAttributeScopeInterface properties */
*/<\n}
<properties(scope)>
/* end globalAttributeScopeInterface properties */
<endif>

+ (<scope.name>_Scope *)new <scope.name>_Scope;
- (id) init;
@if(scope.attributes)
/* start of globalAttributeScopeInterface methodsDecl */
<methodsDecl(scope)>
/* End of globalAttributeScopeInterface methodsDecl */
@end /* end of <scope.name>_Scope interface */
%

globalAttributeScopeMemVar(scope) ::= <%
/* globalAttributeScopeMemVar */
SymbolStack *<scope.name>_stack;
<scope.name>_Scope *<scope.name>_scope;
%

globalAttributeScopeImplementation(scope) ::= <%
@implementation <scope.name>_Scope  /* globalAttributeScopeImplementation */
@if(scope.attributes)
/* start of synthesize -- OBJC-Line 1750 */
<synthesize(scope)>
@end /* end of <scope.name>_Scope implementation */
%

globalAttributeScopeInit(scope) ::= <%
/* globalAttributeScopeInit */

<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];

>>

globalAttributeScopeDealloc(scope) ::= <% [<scope.name>_stack release];%>

globalAttributeScope(scope) ::= <%
  <if(scope.name)>
  static <scope.name>_stack;
  <endif>
%

ruleAttributeScopeMemVar(scope) ::= <%
  /* ObjC ruleAttributeScopeMemVar */
  <if(scope.attributes)>
  <scope.name>_Scope *<scope.name>_scope; /* ObjC ruleAttributeScopeMemVar */
  <endif>
%

ruleAttributeScopeInterface(scope) ::= <%
  /* start of ruleAttributeScopeInterface */
  @interface <scope.name>_Scope : SymbolsScope {
  <memVars(scope)>}
  /* start property declarations */
  <properties(scope)>
  /* start method declarations */
  + (<scope.name>_Scope *)new<scope.name>_Scope;
  - (id) init;
  <methodsDecl(scope)>
  @end /* end of ruleAttributeScopeInterface */
%

ruleAttributeScopeImplementation(scope) ::= <%
  <if(scope.attributes)>
  @implementation <scope.name>_Scope  /* start of ruleAttributeScopeImplementation */
  <synthesize(scope)>
  + (<scope.name>_Scope *)new<scope.name>_Scope
  {<
    return [[<scope.name>_Scope alloc] init];
  }<
  - (id) init
  {<

self = [super init];
return self;

/* start of <scope.name>_Scope get and set functions */

@end /* end of ruleAttributeScopeImplementation */

ruleAttributeScopeInit(scope) ::= <%
/* ruleAttributeScopeInit */
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];
%

ruleAttributeScopeDecl(scope) ::= <%
/* ruleAttributeScopeDecl */
<if(scope.attributes)>
<scope.name>_Scope *<scope.name>_scope;
<endif>
%

ruleAttributeScope(scope) ::= <%
<if(scope.attributes)>
static SymbolScope *<scope.name>_scope;
static <scope.name>_Scope *<scope.name>_scope;
<endif>
%

returnStructName(r) ::= "<className()>_<r.name>_return"

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()> *
<else>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
void
@endif>
%

/** Generate the Objective-C type associated with a single or multiple return
* values. */
ruleLabelType(referencedRule) ::= <%
@if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *
@else>
@if(referencedRule.hasSingleReturnValue)
<referencedRule.singleValueReturnType>
@else>
void
@endif>
@endif>
%

delegateName(d) ::= <% <if(d.label)><d.label><@else>g@d.name@endif> %>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null". */
initValue(typeName) ::= <% <objcTypeInitMap.(typeName)> %>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<!n>
%

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members. */
returnScopeInterface(scope) ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
/* returnScopeInterface <ruleDescriptor:returnStructName()> */
@interface <ruleDescriptor:returnStructName()> :
@if(TREE_PARSER)>Tree<else>Parser@endif>RuleReturnScope { /* returnScopeInterface line 1838 */
@if(scope.attributes)
<memVars(scope)><!n>
@endif>
/* start property declarations */
@if(scope.attributes)
<properties(scope)><!n>
@endif>
/* start of method declarations */

*/
+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()>
/* this is start of set and get methods */
@methodsDecl() /* methodsDecl */
@if(scope.attributes)
/* start of iterated get and set functions */
<methodsDecl(scope)><
@end /* end of returnScopeInterface interface */
<endif>
@end /* end of returnScopeImplementation */

returnScopeImplementation(scope) ::= <%
@if(ruleDescriptor.hasMultipleReturnValues)
@implementation <ruleDescriptor:returnStructName()> /* returnScopeImplementation */
@synthesize() /* start of synthesize -- OBJC-Line 1837 */
@if(scope.attributes)
    <synthesize(scope)><
@endif
@end /* end of returnScope implementation */

parameterScope(scope) ::= <<
<! <scope.attributes:{it | :(<it.type>)<it.name>}; separator=" " !>
<first(scope.attributes):{ a | :(<a.type>)<a.name> }> <rest(scope.attributes):{ a | arg<i>:(<a.type>)<a.name> }; separator=" " > >>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>;"

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly */
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
    ([[scope>_Scope *][scope>_stack objectAtIndex:([scope>_stack size]-<negIndex>-1)].<attr.name>
  <else>
    <if(index)>
      ([scope>_stack objectAtIndex:<index>].<attr.name>
    <else>
      ([scope>_stack peek].<attr.name>
    <endif>
  <endif>
%

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  /* scopeSetAttributeRef */
  <if(negIndex)>
    ([scope>_stack objectAtIndex:(<stack>_stack count-<negIndex>-1)].<attr.name> = <expr>;
  <else>
    <if(index)>
      ([scope>_stack objectAtIndex:<index>].<attr.name> = <expr>;
    <else>
      ([scope>_stack peek].<attr.name> = <expr>;
    <endif>
  <endif>
%

scopeAttributeRefStack() ::= <<
  /* scopeAttributeRefStack */
  <if(negIndex)>
    ([scope>_stack objectAtIndex:([stack>_stack count]-<negIndex>-1)].<attr.name> = <expr>;
  <else>
    <if(index)>
      ([scope>_stack objectAtIndex:<index>].<attr.name> = <expr>;
    <else>
      ([scope>_stack peek].<attr.name> = <expr>;
    <endif>
  <endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like $function.size()>0 & $function::name.equals("foo")? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"
/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=nil?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> /* added to returnAttributeRef */</
<else>
<attr.name</
<endif>
%
>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>; /* added to returnSetAttributeRef */</
<else>
<attr.name> = <expr>;</
<endif>
%
>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Ids} or e+=expr {Se} */
listLabelRef(label) ::= "list_<label>"

/* not sure the next are the right approach; and they are evaluated early; :( */
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=nil?<scope>.text:nil)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=nil?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=nil?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=nil?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=nil?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=nil?[scope].getTokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=nil?[scope].text integerValue:0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=nil?((<labelType> *)<scope>.start):nil)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=nil?((<labelType> *)<scope>.stopToken):nil)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=nil?((<ASTLabelType> *)<scope>.tree):nil)"
ruleLabelPropertyRef_text(scope, attr) ::= <% 
<brule(TREE_PARSER)> 
(<<scope>!=nil?[[input getTokenStream] toStringFromStart:[[input getTreeAdaptor] getTokenStartIndex:[<<scope> getStart]] 
       ToEnd:[[input getTreeAdaptor] getTokenStopIndex:[<<scope> getStart]]]:0) </brule> 
</brule(TREE_PARSER)> 
(<<scope>!=nil?[[input toStringFromToken:[<<scope> getStart] ToToken:[<<scope> getStop]]]:0) <brule> 
%> 
ruleLabelPropertyRef_st(scope, attr) ::= "(<scope>!=nil?[<scope> st]:nil)"
/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "(<scope>!=nil?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope, attr) ::= "(<scope>!=nil?<scope>.line:0)"
lexerRuleLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=nil?<scope>.charPositionInLine:-1)"
lexerRuleLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=nil?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope, attr) ::= "(<scope>!=nil?[<scope> getTokenIndex]:0)"
lexerRuleLabelPropertyRef_text(scope, attr) ::= "(<scope>!=nil?[<scope>.text:nil)
lexerRuleLabelPropertyRef_int(scope, attr) ::= "(<scope>!=nil?[<scope>.text integerValue]:0)"

// Somebody may ref Stemplate or Stree or Sstop within a rule:
rulePropertyRef_start(scope, attr) ::= "((<labelType> *)retval.start)"
rulePropertyRef_stop(scope, attr) ::= "((<labelType> *)retval.stopToken)"
rulePropertyRef_tree(scope, attr) ::= "((<ASTLabelType> *)retval.tree)"
rulePropertyRef_text(scope, attr) ::= """"<brule(TREE_PARSER)> 
[[input getTokenStream] toStringFromStart:[[input getTreeAdaptor] 
getTokenStartIndex:retval.start.token.startIndex] 
ToEnd:[[input getTreeAdaptor] getTokenStopIndex:retval.start.token.stopIndex]] 
<brule> 
</brule(TREE_PARSER)> 
[<input toStringFromToken:retval.start ToToken:[input LT:-1]] 
</brule> 
>> 
rulePropertyRef_st(scope, attr) ::= "retval.st"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "state.text = <expr>;"
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= ":_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "state.tokenStartLine"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "state.tokenStartCharPositionInLine"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= ":-1" /* undefined token index in lexer */
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "state.channel=<expr>;"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "state.tokenStartCharIndex"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "(input.index-1)"
lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "state.type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(input.index-1)"
lexerRulePropertyRef_int(scope,attr) ::= "[<scope>.text integerValue]"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.start =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;" /* "\n" */ "#error StringTemplates are unsupported<\n>" */

/** How to execute an action */
ex�行action(action) ::= <<
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {
    <action>
  }
  <else>
  <action>
  <endif>
>
/** How to always execute an action even when backtracking */
ex�行forcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  static ANTLRBitSet *<name>;
  static const unsigned long long <name>_data[] = { <words64:{it | <it>LL};separator="", ”} ;
>
bitsetInit(name, words64) ::= <<
  <name> = [[ANTLRBitSet newBitSetWithBits:(const unsigned long long *)<name>_data
  Count:(NSUInteger)<length(words64)>] retain];
>

codeFileExtension() ::= ".m"
true_value() ::= "YES"
false_value() ::= "NO"
Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ObjC.stg

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

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*/

scalaTypeInitMap ::= [
  "Int":"0",
  "Long":"0",
  "Float":"0.0f",
  "Double":"0.0",
  "Boolean":"false",
  "Byte":"0",
  "Short":"0",
  "Char":"0",
  default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules */
* and cyclic DFAs plus support code.

*/

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
import org.antlr.runtime._
<if(TREE_PARSER)>
import org.antlr.runtime.tree._
<endif>
<@end>

<docComment>
<recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken", superClass="Lexer") ::= <<

object <grammar.recognizerName> {
  <tokens:{it | val <it.name> = <it.type>}; separator="\n"}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
}

class <grammar.recognizerName>(input: CharStream, state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input, state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>) {
  import <grammar.recognizerName>._
  <actions.lexer.members>

  // delegates
  <grammar.delegates:
    [g|<g.recognizerName> <g:delegateName()>]; separator="\n"> // delegators
  <grammar.delegates:
    [g|<g.recognizerName> <g:delegateName()>]; separator="\n"> <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>;
  <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope><endif>}>
def this(input<grammar.delegators:{g| <g.recognizerName> <g:delegateName()> }>: CharStream) = 
  this(input, new RecognizerSharedState(<grammar.delegators:{g| <g:delegateName()>}>))

<if(memoize)>
<grammar.grammarIsRoot>
  state.ruleMemo = new Array[Map[_,_]](<numRules>+1)<
  <! index from 1..n !>
<endif>
<endif>
<grammar.directDelegates:
  g:<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
  <p:delegateName()>}>), this); separator="\n"
<grammar.delegators:
  g:this.<g:delegateName()> = <g:delegateName()> ; separator="\n"
<last(grammar.delegators):{g|gParent = <g:delegateName()>}>

override def getGrammarFileName = "<fileName>"

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>>}>
<cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new
  <grammar.recognizerName>.DFA<dfa.decisionNumber>(this)}; separator="\n"}
} >>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
override def nextToken(): Token = {
  while (true) {
    if ( input.LA(1)==CharStream.EOF ) { 
      var eof: Token = new CommonToken((CharStream)input,Token.EOF,
        Token.DEFAULT_CHANNEL,
        input.index(),input.index())
      eof.setLine(getLine())
      eof.setCharPositionInLine(getCharPositionInLine())
      return eof
    }
    state.token = null
    state.channel = Token.DEFAULT_CHANNEL
    state.tokenStartCharIndex = input.index()
state.tokenStartCharPositionInLine = input.getCharPositionInLine()
state.tokenStartLine = input.getLine()
state.text = null
try {
    val m = input.mark()
    state.backtracking=1 <! means we won't throw slow exception !>
    state.failed=false
    mTokens()
    state.backtracking=0
    <! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( state.failed ) {
        input.rewind(m)
        input.consume() <! advance one char and try again !>
    }
    else {
        emit()
        return state.token
    }
} catch {
    case re: RecognitionException =>
    // shouldn't happen in backtracking mode, but...
    reportError(re)
    recover(re)
    }
}

override def memoize(input: IntStream,
ruleIndex: Int,
ruleStartIndex: Int) = {
if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex)
}

override def alreadyParsedRule(input: IntStream, ruleIndex: Int):Boolean {
if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex)
return false
}

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
object <grammar.recognizerName> { 
<if(grammar.grammarIsRoot)>
  val tokenNames = Array(
    "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator=",">
  )<"n>
<endif>
<endif>

<tokens:{it | val <it.name> = <it.type}>; separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<bitset:{it | <bitset(name={[FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>],
         words64=it.bits}>}>
}

class <grammar.recognizerName>(input: <inputStreamType>, state<grammar.delegators:{g|, <g.recognizerName>
  <g:delegateName()>}>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input, state) {
  import <grammar.recognizerName>._
  // delegates
  <grammar.delegates:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n"}
  // delegators
  <grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n"}
  <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>}}
<@members>
<! WARNING: bug in ST: this is cut-n-paste into Dbg.stg !>
def this(input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()> }>: <inputStreamType>) =
  this(input, new RecognizerSharedState<grammar.delegators:{g|, <g:delegateName()>}>)
<parserCtorBody()>
  <grammar.directDelegates: 
    {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|
      <p:delegateName()>}>; this}); separator="\n"}
    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>}; separator="\n"}
    <last(grammar.delegators):{g|gParent = <g:delegateName>()}>}
<@end>

override def getTokenNames: Array[String] = tokenNames
override def getGrammarFileName = "<fileName>"

<members>
<rules; separator=\"\n\n\">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor}
@throws(classOf[RecognitionException])
def <ruleDescriptor.name>({ruleDescriptor.parameterScope:parameterScope()}) : {returnType()} = {
@if(ruleDescriptor.hasReturnValue)>return
@endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>({ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator=", "})@\}}; separator="\n"

<synpreds:{p | <synpred(p)>}>

<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>}; separator="\n">

<<
pARSERCTORBODY() ::= <<
@if(memoize)>
@if(grammer.grammarIsRoot)>
this.state.ruleMemo = new Array[java.util.Map[_,_]](<length(grammer.allImportedRules)>+1)<@\n> <! index from
1..n !>
@endif
@endif
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>}; separator="\n">
>>

PARSERCtorBODY(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="Object", superClass="Parser", labelType="Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
numRules, bitsets, filterMode, ASTLabelType=[<ASTLabelType>], ASTLabelType="Object",
superClass=[<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>],
members=[<actions.treeparser.members>] ) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>
/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc.... just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=  
<<
// $ANTLR start <ruleName>
@throws(classOf[RecognitionException])
def <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {
  <ruleLabelDefs()>
  <if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try {
      <block>
    }
    finally {
      traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
  <else>
  <block>
  <endif>
}
// $ANTLR end <ruleName>
>>
synpred(name) ::= <<
final def <name>(): Boolean = {
  state.backtracking+=1
  #@start()
  val start = input.mark()
  try {
    <name>_fragment() // can never throw exception
  } catch {
    case re: RecognitionException =>
      System.err.println("impossible: "+re)
  }
  val success = !state.failed
  input.rewind(start)
  #@stop()
  state.backtracking-=1
  state.failed=false
  success
} \n>>
lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue() } 
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) return <ruleReturnValue()<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (state.backtracking>0) {state.failed=true; return <ruleReturnValue() }<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
@ruleAttributeScope(scope=ruleDescriptor.ruleScope)
@returnScope(scope=ruleDescriptor.returnScope)
// $ANTLR start "<ruleName>"
// <fileName>:<description>
@throws(classOf[RecognitionException])
final def <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): <returnType() > = {
@if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>)<endif>
@ruleScopeSetUp()
@ruleDeclarations()
@ruleLabelDefs()
@ruleDescriptor.actions.init
@preamble()
try {
  <ruleMemoization(name=ruleName)>
  <block>
  <ruleCleanUp()>
  <@preamble>
  <ruleDescriptor.actions.after):execAction()>
  
}@catch(decl=e.decl,action=e.action)>

</if(exceptions)>
<exceptions:{e|catch(decl=e.decl,action=e.action)<@in> }
</if(!emptyRule)>
<if(!actions.(actionScope).rulecatch)>

<!-- $ANTLR start "<ruleName>" -->

catch (decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues) val retval = new <returnType>()
else var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
@endif
@if(memoize) val <ruleDescriptor.name>_StartIndex = input.index() @postamble() @setErrorReturnValue() return <ruleReturnValue>() @setErrorReturnValue() finally {
@if(trace)traceOut(""<ruleName>"", <ruleDescriptor.index>);<endif>
<memoize>()<ruleScopeCleanUp()><finally>}
>>

rulescopeSetUp() ::= <<
@if(ruleDescriptor.useScopes) _stack.push(new <it>_scope()); separator="\n"
else _stack.push(new <it>_scope()); separator="\n"
>>

actions.(actionScope).rulecatch>
<else>
catch {
  case re: RecognitionException =>
    reportError(re)
    recover(input,re)
    <setErrorReturnValue()>
} <un>
@end
<endif>
<endif>
<endif>
finally {
  <if(trace)>traceOut(""<ruleName>"", <ruleDescriptor.index>);<endif>
  <memoize>()
  <ruleScopeCleanUp()>
  <finally>
}
<@postamble()>
return <ruleReturnValue()>
} // $ANTLR end "<ruleName>"
>>
catch (decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues) val retval = new <returnType>()
else var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
@endif
@if(memoize) val <ruleDescriptor.name>_StartIndex = input.index() @postamble() @setErrorReturnValue() return <ruleReturnValue() @setErrorReturnValue() finally {
@if(trace)traceOut(""<ruleName>"", <ruleDescriptor.index>);<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
} <@postamble()>
return <ruleReturnValue()>
} // $ANTLR end "<ruleName>"
>>
catch (decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues) val retval = new <returnType>()
else var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
@endif
@if(memoize) val <ruleDescriptor.name>_StartIndex = input.index() @postamble() @setErrorReturnValue() return <ruleReturnValue() @setErrorReturnValue() finally {
@if(trace)traceOut(""<ruleName>"", <ruleDescriptor.index>);<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
} <@postamble()>
return <ruleReturnValue()>
} // $ANTLR end "<ruleName>"
>>
catch (decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues) val retval = new <returnType>()
else var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
@endif
@if(memoize) val <ruleDescriptor.name>_StartIndex = input.index() @postamble() @setErrorReturnValue() return <ruleReturnValue() @setErrorReturnValue() finally {
@if(trace)traceOut(""<ruleName>"", <ruleDescriptor.index>);<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
} <@postamble()>
return <ruleReturnValue()>
} // $ANTLR end "<ruleName>"
>>
catch (decl, action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>
ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {it | <it>_stack.pop()}; separator="\n">
<ruleDescriptor.ruleScope: {it | <it.name>_stack.pop()}; separator="\n">
>>

ruleLabelDefs() ::= <<<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 : {it | var <it.label.text>: <labelType> = null}; separator="\n" >
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 : {it | var list_<it.label.text>: java.util.List=null}; separator="\n" >
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels: {ll|var <ll.label.text>: RuleReturnScope = null}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels]
 : {it | var <it.label.text>: <labelType> = null}; separator="\n" >
<ruleDescriptor.charLabels: {it | int <it.label.text>}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
 : {it | var list_<it.label.text>: java.util.List=null}; separator="\n" >
>>

ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasNextReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1)\n>
<endif>
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex) }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
@throws(classOf[RecognitionException])
final def m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>)<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
try <block>

<else>
var _type = <ruleName>
var _channel = BaseRecognizer.DEFAULT_TOKEN_CHANNEL
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
try <block>
<ruleCleanUp()>
state.`type` = _type
state.channel = _channel
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
} finally {
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>)<endif>
<ruleScopeCleanUp()>
<memoize()>
}
// $ANTLR end "<ruleName>"
>>
/** How to generate code for the implicitly-defined lexer grammar rule  
* that chooses between lexer rules. */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
@throws(classOf[RecognitionException])
def mTokens(): Unit = {
  <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)> }}
    case _ =>
  }
  <@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)> }}
    case _ =>
  }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
  <@prealt()>
  <alts>
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
@@prealt(){}
<alts>
@@postalt(){}
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var cnt<decisionNumber>: Int = 0
<decls>
@@preloop(){}
var loop<decisionNumber>_quitflag = false
while (!loop<decisionNumber>_quitflag) {
  var alt<decisionNumber>:Int = <maxAlt>
  @@predecision(){}
  <decision>
  @@postdecision(){}
  alt<decisionNumber> match {
    <alts:{a | <altSwitchCase(i,a)>}}
    case _ =>
      if (cnt<decisionNumber> >= 1) loop<decisionNumber>_quitflag = true
      else {
        <ruleBacktrackFailure()>{}
        val eee = new EarlyExitException(<decisionNumber>, input)
        @@earlyExitException(){}
        throw eee
      }
  }
  cnt<decisionNumber>+=1
}
@@postloop(){}
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
<decls>
```
var loop<decisionNumber>_quitflag = false
while (!loop<decisionNumber>_quitflag) {
    var alt<decisionNumber>:Int = <maxAlt>
    <@predecision()>
    <decision>
    <@postdecision()>
    alt<decisionNumber> match {
        <alts:{a | <altSwitchCase(i,a)>}>
        case _ => loop<decisionNumber>_quitflag = true
    }
}  
<@postloop()>

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum, alt) ::= <<
    case <altNum> =>
    <@prealt()>
    <alt>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>::<description>
    {  
        <@declarations()>
        <elements:element()>
        <rew>
        <@cleanup()>
    }  
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
  <@prematch()>
  <e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)><label>=<endif>`match`(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label>
  .asInstanceOf[<labelType>]<endif>
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...)> 
  <listLabel(elem=label,...)> 
>>

listLabel(label,elem) ::= <<
  if (list_<label>==null) list_<label>=new java.util.ArrayList()
  list_<label>.add(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
  <if(label)>
  <label> = input.LA(1)<\n>
  <endif>
  `match`(<char>)
  <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  <if(label)>
  <label> = input.LA(1)<\n>
  <endif>
  matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
mismatch(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
  <if(label)>
  <label> = input.LA(1)<\n>
  <endif>
  if(list_<label>==null) list_<label>=new java.util.ArrayList()
  list_<label>.add(<elem>)<\n>
>>
<if(LEXER)>
<label>= input.LA(1)</label>
</if>
<else>
<label>=input.LT(1).asInstanceOf[labelType]</label>
</endif>
if ( <s> ) {
    input.consume()
    <postmatchCode>
    <if(!LEXER)>
        state.errorRecovery=false
    </if>
    <if(backtracking)>
        state.failed=false
    </if>
} else {
    <ruleBacktrackFailure()>
    val mse = new MismatchedSetException(null,input)
    <@mismatchedSetException()>
    <if(LEXER)>
        recover(mse)
    </if>
    throw mse
    <else>
        throw mse
        <! use following code to make it recover inline; remove throw mse;
        recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>)
        !>
    </if>
} <\n>
>
matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet(...)>
    <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
    <if(label)>
        val <label>Start = getCharIndex()
        `match`(<string>)
    </if>
    <checkRuleBacktrackFailure()>
    val <label>StartLine<elementIndex> = getLine()
    val <label>StartCharPos<elementIndex> = getCharPositionInLine()
    <label> = new <labelType>(input,Token.INVALID_TOKEN_TYPE,Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1)
    <label>.setLine(<label>StartLine<elementIndex>)
>>
wildcard(token,label,elementIndex,terminalOptions) ::= <<
@if(label)>
<label> = input.LT(1).asInstanceOf[<labelType>]<
>endif
matchAny(input)
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)> <listLabel(elem=label,..)> 
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
@if(label)>
<label> = input.LA(1)<
>endif
matchAny()
<checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...) > <listLabel(elem=label,...)> 
>>

/** Match a rule reference by invoking it possibly with arguments 
* and a return value or values. The 'rule' argument was the 
* target rule name, but now is type Rule, whose toString is 
* same: the rule name. Now though you can access full rule 
* descriptor stuff. 
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
@if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">)<
>state._fsp-=1
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
/** A lexer rule reference. 
* 
* The 'rule' argument was the target rule name, but now 
* is type Rule, whose toString is same: the rule name. 
* Now though you can access full rule descriptor stuff. 
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
</lexerRuleRef(...)>}

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
`match`(EOF)
<checkRuleBacktrackFailure>()
val <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>, getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(EOF)
<endif>
</if>

/\* i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
</lexerRuleRef(...)>}

/\* EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
`match`(EOF)
<checkRuleBacktrackFailure>()
val <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>, getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(EOF)
// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg() \leq <opPrec>
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
      `match'(input, Token.DOWN, null)
      <checkRuleBacktrackFailure()>
      <children:element()>
      `match'(input, Token.UP, null)
      <checkRuleBacktrackFailure()>
    }
    <else>
      `match'(input, Token.DOWN, null)
      <checkRuleBacktrackFailure()>
      <children:element()>
      `match'(input, Token.UP, null)
      <checkRuleBacktrackFailure()>
    
  } else
  `match'(input, Token.DOWN, null)
  <checkRuleBacktrackFailure()>
  <children:element()>
  `match'(input, Token.UP, null)
  <checkRuleBacktrackFailure()>
  <endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
  if ( !(<evalPredicate(...)>) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>")
  }
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  val LA<decisionNumber><stateNumber> = input.LA(<k>)
  <edges; separator="\nelse ">
  }
else {
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
  </if>
  <else>
    <ruleBacktrackFailure()>
      val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)\n      <@noViableAltException()>
      throw nvae\n    <endif>
  </else>
}</>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  val LA<decisionNumber>_<stateNumber> = input.LA(<k>)\n  <edges; separator="\nelse ">
</>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  val LA<decisionNumber>_<stateNumber> = input.LA(<k>)\n  <edges; separator="\nelse ">
  <if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
  </if>
  <else>
    else {
      alt<decisionNumber> = <eotPredictsAlt>
    }\n  </else>
</>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
/*
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( ((<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
  <targetState>
}
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
input.LA(<k>) match {
  <edges; separator="\n"> case _ =>
  <if(eotPredictsAlt)> alt<decisionNumber>=<eotPredictsAlt>
  <else> <ruleBacktrackFailure()> val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)\n    <@noViableAltException()> throw nvae\n  <endif>
} <\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
input.LA(<k>) match {
  <edges; separator="\n"> case _ =>
} <\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
input.LA(<k>) match {
  <edges; separator="\n"> case _ =>
  <if(eotPredictsAlt)> alt<decisionNumber>=<eotPredictsAlt>; <endif>
} <\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
case <labels:{it | <it>}; separator=" " |> =>
  <targetState>
// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
*  in the rule to predict an alt just like the fixed DFA case.
*  The <name> attribute is inherited via the parser, lexer, ...
*/

dfaDecision(decisionNumber, description) ::= <<
  alt<decisionNumber> = dfa<decisionNumber>.predict(input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
  val DFA<dfa.decisionNumber>_eotS = "<dfa.javaCompressedEOT; wrap="\n" >"
  val DFA<dfa.decisionNumber>_eofS = "<dfa.javaCompressedEOF; wrap="\n" >"
  val DFA<dfa.decisionNumber>_minS = "<dfa.javaCompressedMin; wrap="\n" >"
  val DFA<dfa.decisionNumber>_maxS = "<dfa.javaCompressedMax; wrap="\n" >"
  val DFA<dfa.decisionNumber>_acceptS = "<dfa.javaCompressedAccept; wrap="\n" >"
  val DFA<dfa.decisionNumber>_specialS = "<dfa.javaCompressedSpecial; wrap="\n" >"
  val DFA<dfa.decisionNumber>_transitionS: Array[String] = Array(
    <dfa.javaCompressedTransition:[s]|"<s; wrap="\n"">}; separator="\n"
  )

  val DFA<dfa.decisionNumber>_eot: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS)
  val DFA<dfa.decisionNumber>_eof: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS)
  val DFA<dfa.decisionNumber>_min: Array[Char] = DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS)
  val DFA<dfa.decisionNumber>_max: Array[Char] = DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS)
  val DFA<dfa.decisionNumber>_accept: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS)
  val DFA<dfa.decisionNumber>_special: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS)
val DFA<dfa.decisionNumber>_transition = new
Array[Array[Short]](DFA<dfa.decisionNumber>_transitionS.length)

for (i <- DFA<dfa.decisionNumber>_transition.indices) {
  DFA<dfa.decisionNumber>_transition(i) =
  DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS(i))
}

class DFA<dfa.decisionNumber> extends DFA {

  def this(recognizer: BaseRecognizer) = {
    this()
    this.recognizer = recognizer
    this.decisionNumber = <dfa.decisionNumber>
    this.eot = DFA<dfa.decisionNumber>_eot
    this.eof = DFA<dfa.decisionNumber>_eof
    this.min = DFA<dfa.decisionNumber>_min
    this.max = DFA<dfa.decisionNumber>_max
    this.accept = DFA<dfa.decisionNumber>_accept
    this.special = DFA<dfa.decisionNumber>_special
    this.transition = DFA<dfa.decisionNumber>_transition
  }

  override def getDescription = "<dfa.description>"
  @errorMethod()
  @throws(classOf[NoViableAltException])
  override def specialStateTransition(s: Int, _input: IntStream):Int = {
    if(LEXER)
      val input = _input
    endif
    if(PARSER)
      val input = _input.asInstanceOf[TokenStream]
    endif
    if(TREE_PARSER)
      val input = _input.asInstanceOf[TreeNodeStream]
    endif
    val _s = s
    s match {
      <dfa.specialStateSTs:{state |
        case <i0> => <! compressed special state numbers 0..n-1 !>
          <state>}; separator="\n">
        case _ =>
      }
      if(backtracking)
        if (state.backtracking>0) {state.failed=true; return -1}
      endif
      val nvae = new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input)
      error(nvae)
    }
throw nvae
}
</endif>
}

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
val LA<decisionNumber>_<stateNumber>: Int = input.LA(1)<
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
val index<decisionNumber>_<stateNumber>: Int = input.index()
input.rewind()<
<endif>
s = -1
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<
<endif>
if ( s>=0 ) return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>}<
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber><
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(pred,"")>)"
evalPredicate(pred,description) ::= "(<pred>)"
evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >=<lower>
&& input.LA(<k>) <= <upper>)"

setTest(ranges) ::= "<ranges; separator="\|
""

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope {
   <scope.attributes:[it | var <it.name>: <it.type> = _]; separator="\n"}
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope {
   <scope.attributes:[it | var <it.name>: <it.type> = _]; separator="\n"}
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]
<endif>
>>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
Unit

return
/** Generate the Java type associated with a single or multiple return
* values. */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues>)
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue>)
<referencedRule.singleValueReturnType>
<else>
Unit
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>
/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null". */
initValue(typeName) ::= <<
<scalaTypeInitMap.(typeName)>
>>
/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>

>>
/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
* TODO(matthewlloyd): make this static */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
final class <ruleDescriptor:returnStructName()> extends
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
  <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n"> 
  <@ruleReturnMembers()>
  }
>>
parameterScope(scope) ::= <<
  <scope.attributes:{it | <it.name>: <it.type>}; separator="",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name>
  <else>
  <if(index)>
  <scope>_stack(<index>).<attr.name>
  <else>
  <scope>_stack.top.<attr.name>
  <endif>
  <endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name> = <expr>
  <else>
  <if(index)>
  <scope>_stack(<index>).<attr.name> = <expr>
  <else>
  <scope>_stack.top.<attr.name> = <expr>
  <endif>
  <endif>
%>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.size()>0 && function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
  <if(referencedRule.hasMoreReturnValues)>
  (if (<scope>!=null) <scope>.<attr.name> else <initValue(attr.type)>)
  <else>
  <scope>
  <endif>
%>
returnAttributeRef(ruleDescriptor, attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>
<else>
<attr.name> =<expr>
<endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {id}s | e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(if (<scope>!=null) <scope>.getText() else null)"
tokenLabelPropertyRef_type(scope, attr) ::= "(if (<scope>!=null) <scope>.getType() else 0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(if (<scope>!=null) <scope>.getLine() else 0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(if (<scope>!=null) <scope>.getCharPositionInLine() else 0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(if (<scope>!=null) <scope>.getLine() else 0)"
tokenLabelPropertyRef_int(scope, attr) ::= "(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(if (<scope>!=null) <scope>.start.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(if (<scope>!=null) <scope>.stop.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(if (<scope>!=null) <scope>.tree.asInstanceOf[ASTLabelType] else null)"
ruleLabelPropertyRef_text(scope, attr) ::= <<
<if(TREE_PARSER>)
(if (<scope>!=null) input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    input.getTreeAdaptor().getTokenStopIndex(<scope>.start)) else null)
<else>
(if (<scope>!=null) input.toString(<scope>.start,<scope>.stop) else null)
<endif>
>>
**Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getType() else 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getLine() else 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getCharPositionInLine() else -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getChannel() else 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= 
"(if (<scope>!=null) <scope>.getText() else null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= 
"(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= 
"(retval.start.asInstanceOf[<labelType>])"
rulePropertyRef_stop(scope,attr) ::= 
"(retval.stop.asInstanceOf[<labelType>])"
rulePropertyRef_tree(scope,attr) ::= 
"(retval.tree.asInstanceOf[ASTLabelType])"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString( 
input.getTreeAdaptor().getTokenStartIndex(retval.start), 
input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex(-1))"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope, attr, expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope, attr, expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {
    <action>
  }
  <else>
  <action>
  <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  val <name> = new BitSet(Array[Long](<words64:{it | <it>L};separator=",">))
>>

codeFileExtension() ::= ".scala"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Scala/Scala.stg
No license file was found, but licenses were detected in source scan.

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/*
 * Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@returnScopeInterface.memVars() ::= <<
  @super.memVars()
  /* ST returnInterface.memVars */
  ST *st;
>>

@property (retain, getter=getST, setter=setST:) ST *st;

@returnScopeInterface.methodsDecl() ::= <<
  @super.methodsDecl()
  /* ST AST returnScopeInterface.methodsDecl */
  - (id) getTemplate;
  - (NSString *) toString;
  - (NSString *) description;
>>

@returnScopeInterface() ::= <<
  /* ST returnScopeInterface */
  @interface <returnScopeInterface.name> : ReturnScope {
    <returnScopeInterface.memVars()>
  }
  <returnScopeInterface.properties()>
  <returnScopeInterface.methods()>
  @end
>>

@returnScopeImplementation.synthesize() ::= <<
<@super.synthesize()>

/* ST returnScope.synthesize */
@synthesize st;
>>

@returnScopeImplementation.methods() ::= <<
<@super.methods()>
/* ST returnScope.methods */
- (id) getTemplate { return st; }
- (NSString *) toString { return st==nil?nil:[st toString]; }
- (NSString *) description { [self toString]; }
>>

@returnScopeImplementation() ::= <<
@implementation <returnScopeImplementation.name>
<returnScopeImplementation.synthesize()>
<returnScopeImplementation.methods()>
@end
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
<@super.ruleReturnMembers()>
/* ST returnScope.ruleReturnMembers -- empty */
>>

@genericParserHeaderFile.memVars() ::= <<
<@super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<
<@super.properties()>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

@genericParserHeaderFile.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>
@genericParser.synthesize() ::= <<
<@super.synthesize()>
/* ST genericParserImplementation.synthesize */
synthesize templateLib;
>>

@genericParser.methods() ::= <<
<@super.methods()>
/* ST genericParser.methods */

- (STGroup *)getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}

>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup:@"<name>Templates"];

- (STGroup *) getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *) templateLib
{
    this.templateLib = templateLib;
}

/** allows convenient multi-value initialization:
* "new STAttrMap().put(...).put("
* /
/* REPLACE THIS STATIC CLASS
static class STAttrMap extends HashMap {
- (STAttrMap *) setObject:(id)aValue forKey:(NS*)String attrName
{
    [super setObject: value forKey:attrName];
    return self;
}
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName
{
[super setObject:[NSNumber numberWithInteger:value] forKey:attrName];
return self;
}
}
}/*
>>

@STAttrMap() ::= <<
/* ------- ST start STAttrMap ----------- */
<@STAttrMap.interface()>
<@STAttrMap.implementation()>
/* ------- ST end STAttrMap ----------- */
>>

@STAttrMap.interface() ::= <<
/* ------- ST start STAttrMap.interface ----------- */
@interface STAttrMap : HashMap {
/*    <@STAttrMap.memVars()> */
STGroup *templateLib;
} /*    <@STAttrMap.properties()> */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* <@STAttrMap.methodsDecl()> */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
@end
/* ------- ST end STAttrMap.interface ----------- */
>>

@STAttrMap.implementation() ::= <<
/* ------- ST start STAttrMap.implementation ----------- */
/** allows convenient multi-value initialization:
* "new STAttrMap().put(...).put(...)"
*/
@implementation STAttrMap
@synthesize templateLib;

<@STAttrMap.methods()>
@end
/* ------- ST end STAttrMap.implementation ----------- */
>>

@STAttrMap.memVars() ::= <<
/* ------- ST start STAttrMap.memVars ----------- */
STGroup *templateLib;
/* -------- ST end STAttrMap.memVars ------------ */
>>

@STAttrMap.properties() ::= <<
/* -------- ST start STAttrMap.properties ------------ */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* -------- ST end STAttrMap.properties ------------ */
>>

@STAttrMap.methodsDecl() ::= <<
/* -------- ST start STAttrMap.methodsDecl ------------ */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
/* -------- ST end STAttrMap.methodsDecl ------------ */
>>

@STAttrMap.methods() ::= <<
/* -------- ST start STAttrMap.methods ------------ */
- (id) init
{
    self = [super initWithLen:16];
    if ( self != nil ) {
        templateLib = [STGroup newSTGroup:"<name>Templates"];
    }
    return self;
}
- (STAttrMap *) setObject:(id)aValue forKey:(NSString *)aAttrName
{
    [super setObject:aValue forKey:aAttrName];
    return self;
}
- (STAttrMap *) setObjectWithInt:(NSInteger)aValue forKey:(NSString *)aAttrName
{
    [super setObject:[NSNumber numberWithInteger:aValue] forKey:aAttrName];
    return self;
}
- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}
- (STGroup *) getTemplateLib

{ return templateLib; 
} /* -------- ST end STAttrMap.methods ------------ */

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ST ruleRefAndListLable */
<ruleRef(...)>
<llistLabel(elem=[label getTemplate,...]>>
>>

rewriteTemplate(alts) ::= <<
/* -------- ST start rewriteTemplate ------------ */
// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
} 
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
/* -------- ST end rewriteTemplate ------------ */
>>

replaceTextInLine() ::= <<
/* -------- ST start replaceTextInLine ------------ */
<if(TREE_PARSER)>
[[[TokenRewriteStream *)input getTokenStream]
    replaceFromIndex:[[input getTreeAdaptor] getTokenStartIndex:retval.start]
    TokenIndex:[[input getTreeAdaptor] getTokenStopIndex:retval.start]
    Text:retval.st];
<else>
[(TokenRewriteStream *)input]
    replaceFromIndex:[[((CommonToken *)retval.start) getTokenIndex]
    TokenIndex:[[input LT:-1] getTokenIndex]
    Text:retval.st];
<endif>
/* -------- ST end replaceTextInLine ------------ */
>>

rewriteTemplateAlt() ::= <<
/* -------- ST start rewriteTemplateAlt ------------ */
/* ST <it.description> */
<if(it.pred)>
if (<it.pred>) {
    retval.st = <it.alt>;
} <\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n><\n>
rewriteAction(action) ::= <<
/* -------- ST start rewriteAction ------------ */
<action>
/* -------- ST end rewriteAction ------------ */
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
/* -------- ST start actionSetAttribute ------------ */
[[ST attributes] setObject:<expr> forKey:@"<attrName>"];
<![<st> setAttribute:<expr> name:@"<attrName>"];!>
/* -------- ST end actionSetAttribute ------------ */
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
/* -------- ST start actionStringConstructor ------------ */
[ST newSTWithTemplate:<stringExpr>]
/* -------- ST end actionStringConstructor ------------ */
>>

Found in path(s):
*/opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ST.stg
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finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
 <block>
<else>
 <block>
<endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
 <super.ruleDeclarations()>
 _first_0 = None
 _last = None
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
 <if(rewriteMode)>
 retval.tree = _first_0
 if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
     retval.tree = self._adaptor.getParent(retval.tree)
 <endif>
})>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.

/*

tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = self.input.LT(1)
_save_last_<treeLevel> = _last
_first_<treeLevel> = None
<if(!rewriteMode)>
    root_<treeLevel> = self._adaptor.nil()
<endif>
[root:element()]
<if(rewriteMode)>
    <finishedBacktracking({
        <if(root.el.rule)>
            if _first_<enclosingTreeLevel> is None:
                _first_<enclosingTreeLevel> = <root.el.label>.tree
            else:
                if _first_<enclosingTreeLevel> is None:
                    _first_<enclosingTreeLevel> = <root.el.label> \n
            <endif>
        }>)
        <actionsAfterRoot:element()>
        <if(nullableChildList)>
            if self.input.LA(1) == DOWN:
                self.match(self.input, DOWN, None)
            <children:element()>
                self.match(self.input, DOWN, None)
            <else>
                self.match(self.input, DOWN, None)
            <children:element()>
                self.match(self.input, UP, None) \n
        <else>
        self.match(self.input, DOWN, None)
        <children:element()>
        self.match(self.input, UP, None) \n
        <endif>
        <if(!rewriteMode)>
            self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>) \n
        <endif>
        _last = _save_last_<treeLevel>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.tokenRef(...)
  <if(!rewriteMode)
  <finishedBacktracking({
  <if(terminalOptions.node)
  <label>_tree = <terminalOptions.node>(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif>
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <else> <! rewrite mode !>
  <finishedBacktracking({
  if _first_<treeLevel> is None:
    _first_<treeLevel> = <label><
  })>
  <endif>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.wildcard(...)
  <if(!rewriteMode)>
  <finishedBacktracking({
    <label>_tree = self._adaptor.dupTree(<label>)
    self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <else> <! rewrite mode !>
  <finishedBacktracking({
    if _first_<treeLevel> is None:
      _first_<treeLevel> = <label>
  })>
  <endif>
>>

// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <finishedBacktracking({
    <if(terminalOptions.node)>
      <label>_tree = <terminalOptions.node>(<label>)
    <else>
      <label>_tree = self._adaptor.dupNode(<label>)
    </endif>
  }>
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  }))
  <endif>
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
  <matchSet(...)>
  <noRewrite(...)<! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(...)>
>>
matchSetRuleRoot(s, label, elementIndex, debug, terminalOptions={ }) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif>

root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
}, ...)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<finishedBacktracking({
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> ! rewrite mode !>
if _first_<treeLevel> is None:
_first_<treeLevel> = <label>.tree
<endif>

})>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)> 
<listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule, label, elementIndex, args, scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
})>
<endif>
>>
/** ^ (x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrack(...)> 
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefTrackAndListLabel(...)>
>>

/** ^ (rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRootTrack(...)>
>>

/** ^ (x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to * change nextToken to nextNode. */
createRewriteNodeFromElement(token,scope,terminalOptions={}) ::= <<
  <if(terminalOptions.node)>
    <terminalOptions.node>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <finishedBacktracking({
      retval.tree = self._adaptor.rulePostProcessing(root_0)
    })>
  <endif>
>>
Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources.jar/org/antlr/codegen/templates/Python3/ASTTreeParser.stg

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*/

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and ! invalid. There is no huge explosion of combinations.
 */
@rule.setErrorReturnValue() ::= <<

/* ASTParser rule.setErrorReturnValue */
retval.tree = (<ASTLabelType>*)[treeAdaptor errorNode:input From:retval.start To:[input LT:-1] Exception:re];
<! System.out.println("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token, label, elementIndex, terminalOptions) ::= «<
/* ASTParser tokenRef */
<super.tokenRef(...)><if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
[treeAdaptor addChild:<label>_tree toTree:root_0];
<if(backtracking)>}<endif>
>>

/* ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= «<
<super.tokenRef(...)><if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>*)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= «<
/* ASTParser tokenRefBangAndListLabel */
<tokenRefBang(...)><listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= «<
/* ASTParser tokenRefAndListLabel */
<tokenRef(...)><listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= «<
/* ASTParser tokenRefRuleRootAndListLabel */
<tokenRefRuleRoot(...)><listLabel(elem=label,...)>
>>
// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <%
/* ASTParser matchSet */
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
    [treeAdaptor addChild:<createNodeFromToken(...)> toTree:root_0 ];}, ...)>
%>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTParser matchRuleBlockSet */
<matchSet(...)>
>

matchSetBang(s,label,elementIndex,terminalOptions, postmatchCode) ::= "<super.matchSet(...)"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B)...C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTParser matchSetRuleRoot */
<if(label)>
<label>=(<labelType> *)[input LT:1]; /* matchSetRuleRoot */</label>
<endif>
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createNodeFromToken(...) toTree:root_0 ];}, ...)>
>

// RULE REF AST

/*** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRef */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
[treeAdaptor addChild:[<label> getTree] toTree:root_0];
/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)">

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRoot */
<super.ruleRef(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] old:root_0];
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefAndListLabel */
<ruleRef(...)>
<listLabel(elem = {
[<label> getTree],...})>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefBangAndListLabel */
<ruleRefBang(...)>
<listLabel(elem = {
[<label> getTree],...})>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = {
[<label> getTree],...})>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser wildcard */
<super.wildcard(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
[treeAdaptor addChild:[[treeAdaptor create:<label>] retain] toTree:root_0];
@if(backtracking)>}<endif>
>>

wildcardBang(token,label,elementIndex,terminalOptions) ::= "<super.wildcard(...)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser wildcardRuleRoot */
createNodeFromToken(label, terminalOptions) ::= <<
/* ASTParser createNodeFromToken */
@if(terminalOptions.node)
[terminalOptions.node] new<terminalOptions.node>;:<label> ] <! new MethodNode(IDLabel) !>
@else
(<ASTLabelType> *)[treeAdaptor create:<label> ] retain
@endif
>>

// straight from java cleanup ///
ruleCleanUp() ::= <<
/* ASTParser ruleCleanUp */
@super.ruleCleanUp()
@if(terminalOptions.node)
@retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
@treeAdaptor setTokenBoundaries:retval.tree From:retval.start To:retval.stopToken;
@endif
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ASTParser.stg
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group Dbg;

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@parserBody.mixins() ::= <<
  include ANTLR3::<if(profile)>Profile<else>Debug<endif>::ParserEvents
>>

@parserBody.additionalMembers() ::= <<
  <if(grammar.grammarIsRoot)>
  RULE_NAMES = [
    :invalid_rule, <grammar.allImportedRules:{rST}:<rST.name>}; wrap="\n  " separator="", "">
  ].freeze
  <endif>
>>

@rule.body() ::= <<
in_rule(grammar_file_name, "<ruleName>") do
  @debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)
  #@super.body()
  @debug_listener.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)
end
>>

// Common debug event triggers used by region overrides below
enterSubRule() ::= <<
in_subrule(<decisionNumber>) do
end
>>

exitSubRule() ::= <<
end
>>
enterDecision() ::= <<
in_decision(<decisionNumber>) do
>>

exitDecision() ::= <<
end
>>

enterAlt(n) ::= <<
in_alternative(<n>)
>>

// Region overrides that tell various constructs to add debugging triggers
@block.body() ::= <<
in_subrule(<decisionNumber>) do
  @@super.body()
end
>>

// @blockBody.predecision() ::= "<enterSubRule()>">
// @blockBody.postdecision() ::= "<exitDecision()>">
// @blockBody.postbranch() ::= "<exitSubRule()>">
@blockBody.decision() ::= <<
in_decision(<decisionNumber>) do
  @@super.decision()
end
>>

@ruleBlock.decision() ::= <<
in_decision(<decisionNumber>) do
  @@super.decision()
end
>>

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n={1})>"

@blockSingleAlt.prealt() ::= "<enterAlt(n={1})>"

@positiveClosureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  <@super.loopBody()>
end

@positiveClosureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  <@super.decisionBody()>
end
>>

@positiveClosureBlockLoop.earlyExitException() ::= <<
@debug_listener.recognition_exception(eee)
>>

@closureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
  <@super.loopBody()>
end
>>

@closureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
  <@super.decisionBody()>
end
>>

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase

element(e) ::= <<
  @debug_listener.location(<e.line>, <e.pos>) // e is arg of element
  <super.element(e)>
>>

@matchSet.mismatchedSetException() ::= "@debug_listener.recognition_exception(mse)"

@dfaState.noViableAltException() ::= <<
nvae = NoViableAlternative("<description>", <decisionNumber>, <stateNumber> )
  @debug_listener.recognition_exception( nvae )
raise( nvae )
>>
@dfaStateSwitch.noViableAltException() ::= <<
    nvae = NoViableAlternative("<description>", <decisionNumber>, <stateNumber> )
    @debug_listener.recognition_exception(nvae)
    raise( nvae )
>>

dfaDecision(decisionNumber,description) ::= <<
    begin
    @state.cyclic_decision = true
    <super.dfaDecision(...)>
    rescue ANTLR3::Error::NoViableAlternative => nvae
        @debug_listener.recognition_exception(nvae)
        raise
    end
>>

@cyclicDFA.errorMethod() ::= <<
    def error(nvae)
        @recognizer.debug_listener.recognition_exception(nvae)
        super
    end
>>

    /* Force predicate validation to trigger an event */
    evalPredicate(pred,description) ::= <<
        predicate?("<description>") { <pred> }
    >>

Found in path(s):
  * /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Ruby/Dbg.stg

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/** Templates for building ASTs during normal parsing. */
// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>

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/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(>)
<if(backtracking)>if ( <actions.(actionScope).synpredGate> ) {<endif>
<label>_tree = <createNodeFromToken(>);
root_0 = ( <ASTLabelType>(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
<if(backtracking)>}{<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(>)
<listLabel(elem=label,...)>}
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)>}
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...>)
<listLabel(elem=label,...)>}
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code.  I don't use the region stuff because I need to pass
// different chunks depending on the operator.  I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code.  Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode=<{if(backtracking)>if ( <actions.(actionScope).synpredGate> )
<endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>);,...}>)
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<<matchSet(...)>>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetBranchRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= "<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));},...}>"

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,ruleSelect,ruleIndex,ruleIndexType,scope) ::= "<super.ruleRef(...)>

/** rule! is same as normal rule ref */
ruleRefBang(rule,ruleSelect,ruleIndex,ruleIndexType,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,ruleSelect,ruleIndex,ruleIndexType,scope) ::= "<super.ruleRef(...)>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,ruleSelect,ruleIndex,ruleIndexType,scope) ::= "<super.ruleRef(...)>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,ruleSelect,ruleIndex,ruleIndexType,scope) ::= "<super.ruleRefBang(...)>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelAST(...)>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)>  
@if(backtracking) if ( <actions.(actionScope).synpredgate> ) { <endif>  
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));  
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);  
@if(backtracking) } <endif>
>>
wildcardBang(token,label,elementIndex,terminalOptions) ::= "<super.wildcard(...)>

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
@if(backtracking) if ( <actions.(actionScope).synpredgate> ) { <endif>  
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));  
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));  
@if(backtracking) } <endif>
>>
createNodeFromToken(label,terminalOptions) ::= <<
@if(terminalOptions.node)  
<terminalOptions.node>New(<label>)  <! new MethodNode(IDLabel) !>  
@else  
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))  
@end
>>
ruleCleanUp() ::= <<
<super.ruleCleanUp()>  
@if(backtracking)  
if ( <actions.(actionScope).synpredgate> )  
{ <n>  
@end
@if(!ruleDescriptor.isSynPred)  
retval.stop = LT(-1); <n>  
@end
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));  
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);  
<ruleDescriptor.allTokenRefsInAltsWithRewrites :{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">  
<ruleDescriptor.allRuleRefsInAltsWithRewrites :{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/ASTParser.stg
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/** Templates for building ASTs during tree parsing.  
 *  *  Deal with many combinations.  Dimensions are:
 *    *  Auto build or rewrite
 *    * no label, label, list label  (label/no-label handled together)
 *    * child, root
 *    * token, set, rule, wildcard
 *    * Each combination has its own template except that label/no label
 *    * is combined into tokenRef, ruleRef, ...
 */

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;
<endif>
>>

/** What to emit when there is no rewrite rule.  For auto build
 * mode, does nothing. */
```java
noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
    <if(rewriteMode)>
      retval.tree = _first_0;
      if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
        retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
    </if>
    <if(backtracking)>}<endif>
  <endif>
>>

/** match ^(root children) in tree parser; override here to
 *  add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    {
      <ASTLabelType> _save_last_<treeLevel> = _last;
      <ASTLabelType> _first_<treeLevel> = null;
      <if(!rewriteMode)>
        <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
      </if>
      <root:element()>
        <if(rewriteMode)>
          <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
          <if(root.el.rule)>
            if ( _first_<enclosingTreeLevel>=null ) _first_<enclosingTreeLevel> =
            (<ASTLabelType>)root.el.label_.getTree();
            <elseif(root.el.label)>
              if ( _first_<enclosingTreeLevel>=null ) _first_<enclosingTreeLevel> = <root.el.label>;
            </if>
          </if>
        </if>
      </root:element()>
      <if(!rewriteMode)>
        <if(nullableChildList)>
          if ( input.LA(1)==Token.DOWN ) {
            match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
            <children:element()>
              match(input, Token.UP, null); <checkRuleBacktrackFailure()>
            </children:element()>
            break;
          }<else>
            match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
            <children:element()>
              match(input, Token.UP, null); <checkRuleBacktrackFailure()>
            </children:element()>
            break;
          </if>
        </if>
      </if>
    </if>
  </if>
</tree>
```

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adaptor.addChild(root.<enclosingTreeLevel>, root.<treeLevel>);
<endif>
_last = _save_last.<treeLevel>
];
<\u>
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<else>
<super.tokenRefBang(...)
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
<endif>
<if(backtracking)> if ( _first.<treeLevel>==null ) _first.<treeLevel> = <label>;
<endif>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)> 
<listLabel(elem=label,...)> 
<else>
<super.tokenRefAndListLabel(...)> 
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1); 
<super.tokenRef(...)> 
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)> 
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1); 
<super.wildcard(...)> 
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>
// SET AST

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>{<endif>
<endif>
}, ...
})
<else>
<super.matchSet(...)
<endif>
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
<matchSet(...)>
<noRewrite(...)>> ! set return tree !>
<else>
<super.matchRuleBlockSet(...)
<endif>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
<else>
<super.matchSetBang(...)
<endif>
matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>
<endif>
}, ...
>
<else>
<super.matchSetRuleRoot(…)>  
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(…)>  
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = (<ASTLabelType>)<label>.getTree();
<endif>
<else>
<super.ruleRef(…)>  
<endif>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabel(label, {<label>.getTree()})>
<else>
<super.ruleRefAndListLabel(…)>
<endif>

>>
/** ^ (rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRef(...)>
    <if(!rewriteMode)>
      <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
      (<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
      <endif>
    <else>
      <super.ruleRefRuleRoot(...)>
    </if>
    <endif>
  <super.ruleRefRuleRoot(...)>
  <endif>
>>

/** ^ (x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <ruleRefRuleRoot(...)>
    <listLabel(label, {<label>.getTree()})>
  <else>
    <super.ruleRefRuleRootAndListLabel(...)>
  </if>
  <endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefTrackAndListLabel(...)>
  <else>
    <super.ruleRefTrackAndListLabel(...)>
  </if>
  <endif>
>>

/** ^ (rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefRootTrack(...)>
  <else>
    <super.ruleRefRootTrack(...)>
  </if>
/** (^x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)
<endif>
>>

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,args,terminalOptions={}) ::= <<
<if(terminalOptions.node>)
new <terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!ruleDescriptor.isSynPred)
<if(!rewriteMode)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<
<endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
<endif>
<endif>
>>

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New style messages. This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.

GROUP antlr;

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/templates/messages/formats/vs2005.stg
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/** Templates for building ASTs during tree parsing. *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <if(!ruleDescriptor.isSynPred)>
    <ASTLabelType> _first_0 = default(<ASTLabelType>);
    <ASTLabelType> _last = default(<ASTLabelType>);
  <endif>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
      <if(rewriteMode)>
        retval.Tree = (<ASTLabelType>)._first_0;
          retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
      <endif>
    <endif>
    <if(backtracking)>}<endif>
  <endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
   _last = (<ASTLabelType>)input.LT(1);
   {
     <ASTLabelType> _save_last_<treeLevel> = _last;
     <ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
     <if(!rewriteMode)>
       <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
     <endif>
     <root:element()> 
     <if(rewriteMode)>
       <if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
       <if(root.el.rule)>
         if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
       <else>
         if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>;
       <endif>
     <endif>
     <children:element()> 
     <if(nullableChildList)>
       if (input.LA(1) == TokenTypes.Down) {
         Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
         <children:element()> 
         Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
       } 
     <else>
       Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
       <children:element()> 
       Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
     <endif>
   <if(!rewriteMode)>
     adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
   <endif>
   _last = _save_last_<treeLevel>;
  } 
  <else>
  <super.tree(...)>
  <endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
 *  setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
   <if(!ruleDescriptor.isSynPred)>

_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<else>
<super.tokenRefBang(...)
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif>
<else>
<label>_tree =
(adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif>
<endif>
<if(backtracking)>}
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.tokenRef(...)
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)
<tokenRef(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefAndListLabel(...)>
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)
_token = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)
_label._tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif>
<endif>
<else>
<super.tokenRef(...)
<endif>
>>

/** ^ID auto construct */
tokenRef ^(ID ...)(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)
_token = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)
_label._tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif>
<endif>
<else>
<super.tokenRef(...)
<endif>
>>
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">:<endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">:<endif>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
</if(backtracking)>}
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
tokenRefRuleRoot(...)
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>
<endif>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_input = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.wildcard(...)>
<endif>
<endif>

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// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= 
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.matchSet(postmatchCode=}
    <if(!rewriteMode)>
      <if(backtracking)>if (actions.(actionScope).synpredgate) {<endif>
      <if(terminalOptions.node)>
        _tree = new
        <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
text),<terminalOptions.text; format="string">(<endif>);
      <else>
        _tree =
        (<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">(<endif>);
        <endif>
      </if>(backtracking)>{<endif>
      <if(!rewriteMode)>
    <else>
      <super.matchSet(...)>
    <endif>
  </if>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= 
  <if(!ruleDescriptor.isSynPred)>
  <matchSet(...)
  <noRewrite(...)>; ! set return tree !
  <else>
    <super.matchRuleBlockSet(...)>
  <endif>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= 
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.matchSet(...)
    <else>
    <super.matchSetBang(...)>
  <endif>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= 
  <if(!ruleDescriptor.isSynPred)>

---

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<super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>
  if (<actions.(actionScope).synpredgate>)
  <endif>
  <if(terminalOptions.node)>
  <label>_tree = new
  <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,
  <endif><label><if(terminalOptions.text)
  <terminalOptions.text; format="string">
  <endif>);
  <else>
  <label>_tree =
  (<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,
  <endif><label><if(terminalOptions.text)
  <terminalOptions.text; format="string">
  <endif>);
  <endif>
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>
  }<endif>
  <endif>
}, ...
})>
  <else>
  <super.matchSetRuleRoot(...)>
  <endif>
}>>
  // RULE REF AST

  /** rule auto construct */
  ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRef(...)>
  <if(backtracking)>
  if (<actions.(actionScope).synpredgate>)<endif>
  <if(!rewriteMode)>
  adaptor.AddChild(root_<treeLevel>, <label>.Tree);
  <else> <! rewrite mode !>
  if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
  <endif>
  <else>
  <super.ruleRef(...)>
  <endif>
}>>

  /** x+=rule auto construct */
  ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <ruleRef(...)>
  <listLabelElem(elem={<label>.Tree},...)>)
  <else>
  <super.ruleRefAndListLabel(...)>
  <endif>
>>

  // RULE REF AST

  /** rule auto construct */
  ruleRef(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRef(...)>
  <if(backtracking)>
  if (<actions.(actionScope).synpredgate>)<endif>
  <if(!rewriteMode)>
  adaptor.AddChild(root_<treeLevel>, <label>.Tree);
  <else> <! rewrite mode !>
  if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
  <endif>
  <else>
  <super.ruleRef(...)>
  <endif>
}>>
/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRef(...)>
  <if(!rewriteMode)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) </endif>root_<treeLevel> =
    (<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
  </if>
  <else>
    <super.ruleRefRuleRoot(...)>
  </else>
  <super.ruleRefRuleRoot(...)> 
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <ruleRefRuleRoot(...)>
    <listLabelElem(elem={<label>.Tree},...)>
  <else>
    <super.ruleRefRuleRootAndListLabel(...)>
  </else>
  <super.ruleRefRuleRootAndListLabel(...)> 
  <endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefTrack(...)>
  <else>
    <super.ruleRefTrack(...)>
  </else>
  <super.ruleRefTrack(...)> 
  <endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    _last = (<ASTLabelType>)input.LT(1);
    <super.ruleRefTrackAndListLabel(...)>
  <else>
    <super.ruleRefTrackAndListLabel(...)>
  </else>
  <super.ruleRefTrackAndListLabel(...)> 
  <endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
```java
<if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRootTrack(...)>
  <else>
  <super.ruleRefRuleRootTrack(...)>
  <endif>
  >>

/** (x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.ruleRefRuleRootTrackAndListLabel(...)>
  <else>
  <super.ruleRefRuleRootTrackAndListLabel(...)>
  <endif>
  >>

/** Streams for token refs are tree nodes now; override to *
* change NextToken to NextNode. */
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
  <if(terminalOptions.node)>
  new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
  <else>
  stream_<token>.NextNode()
  <endif>
  %>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!ruleDescriptor.isSynPred)>
  <if(!rewriteMode)>
  <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
  retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
  <if(backtracking)>}<endif>
  <endif>
  <endif>
  >>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg
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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

@genericParser.members() ::= <<
<@super.members()>
private StringTemplateGroup _templateGroup = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateGroup
{
    get { return _templateGroup; }
    set { _templateGroup = value; }
}
ruleReturnBaseType() ::= <%
  Template<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope<StringTemplate, <labelType>>%

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabelElem(elem={<label>.Template},elemType="StringTemplate"....)>
>>

rewriteTemplate(alts) ::= <<
  // TEMPLATE REWRITE
  <if(backtracking)>
  if (<actions.(actionScope).synpredgate>)
  {
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
  }
  <else>
  <alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>
  </alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()><endif>
  <endif>
>>

replaceTextInLine() ::= <<
  <if(TREE_PARSER)>
  ((TokenRewriteStream)input.TokenStream).Replace(
    input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start),
    retval.Template);
  <else>
  ((TokenRewriteStream)input).Replace(
    retval.Start.TokenIndex,
    input.LT(-1).TokenIndex,
    retval.Template);
  <endif>
>>

rewriteTemplateAlt(it) ::= <<
  // <it.description>
  <if(it.pred)>
  if (<it.pred>)
  {
    retval.Template = <it.alt>;
  }
}  
</else>
{
retval.Template = <it.alt>;
}  
</endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
* Set the value of the rule's template *after* having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name,args) ::= <%
TemplateGroup.GetInstanceOf("<name>"<optionalArguments(args)>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
TemplateGroup.GetInstanceOf(<expr><optionalArguments(args)>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(TemplateGroup, "<template>"<optionalArguments(args)>)
%>

optionalArguments(args) ::= <<
<if(args)>,
new Dictionary<string, object>() { <args:optionalArgument(); separator="", "> }  
<endif>
>>

optionalArgument(it) ::= <<
["<it.name>", <it.value>
]  
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st, attrName, expr) ::= <<
(st).SetAttribute("<attrName">", <expr>);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(TemplateGroup, <stringExpr>)
>>

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 */

@outputFile.imports() ::= <<
<@super.imports()>

---

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using Antlr.Runtime.Tree;

@genericParser.members() ::= <<
    <@super.members()>
    <parserMembers()>
>>

parserCtorBody() ::= <%
    <super.parserCtorBody()><
    TreeAdaptor = <
    <if(actions.(actionScope).treeAdaptorInitializer)>
        <actions.(actionScope).treeAdaptorInitializer>
    <else>
        new <actions.(actionScope).treeAdaptorType; null="CommonTreeAdaptor">()</n    <end>
    :
    %>

    /** Add an adaptor property that knows how to build trees */
    parserMembers() ::= <<
        private <treeAdaptorType()> adaptor;

        public <treeAdaptorType()> TreeAdaptor
        {
            get
            {
                return adaptor;
            }

            set
            {
                this.adaptor = value;
                <grammar.directDelegates:{[g]g.delegateName()}.TreeAdaptor = this.adaptor;}>
            }
        }
>>

treeAdaptorType() ::= <<
    <actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">>
>>

ruleReturnBaseType() ::= <%
    Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope<<ASTLabelType>, <labelType>>
/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);<
>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :[if]<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);]; separator="\n"
<ruleDescriptor.tokenListLabels:{it}<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
 :[it]RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
 :[it]RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n">

>>

/** When doing auto AST construction, we must define some variables; *
* These should be turned off if doing rewrites. This must be a "mode" *
* as a rule could have both rewrite and AST within the same alternative *
* block. *
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.Nil();
<endif>
<endif>
<endif>

>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<
>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefTrack(...)
<listLabelElem(elem=label,elemType=labelType,...)>>>

/** ^(ID ...) track for rewrite */
tokenRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRootTrack(...)
<listLabelElem(elem=label,elemType=labelType,...)>>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabelElem(elem=[<label>.Tree],elemType=ASTLabelType,...)>>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelElem(elem=[<label>.Tree],elemType=ASTLabelType,...)>>>

// Rewrite
rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
/** Generate code for an optional rewrite block; note it uses the deep ref'd element list rather shallow like other blocks. */
rewriteOptionalBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
description) ::=<<
    // <fileName>:<description>
    if (referredElementsDeep:{el | stream_<el>.HasNext}; separator="||")
    {
        <alt>
    }
    referredElementsDeep:{el | stream_<el>.Reset();<\n>}
>>

rewriteClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
description) ::=<<
    // <fileName>:<description>
    while (referredElements:{el | stream_<el>.HasNext}; separator="||")
    {
        <alt>
    }
>>
<referencedElements:{el | stream_<el>.Reset();
}>>

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
{
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();
}>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}
<else>
{
<a.alt>
}
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,encodingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.AddChild(root_<encodingTreeLevel>, root_<treeLevel>);}
\n>>

rewriteElementList(elements) ::= "$elements:rewriteElement()$"
### Rewrite Rules

- **`rewriteElement(e)`**

  ```
  <%
  @pregen()
  DebugLocation(<e.line>, <e.pos>);\n  <e.el>
  %>
  ```

- **`/** Gen ID or ID[args] */**`

  ```
  rewriteTokenRef(token,elementIndex,args,terminalOptions={}) ::= <<
  adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>)<\n  >>
  ```

- **`/** Gen `label` ... where defined via label=ID */**`

  ```
  rewriteTokenLabelRef(label,elementIndex) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode())<\n  >>
  ```

- **`/** Gen `label` ... where defined via label+=ID */**`

  ```
  rewriteTokenListLabelRef(label,elementIndex) ::= <<
  adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode())<\n  >>
  ```

- **`/** Gen `^($label ...) */**`

  ```
  rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>)<\n  >>
  ```

- **`/** Gen `^(ID ...) or ^(ID[args] ...) */**`

  ```
  rewriteTokenRefRoot(token,elementIndex,args,terminalOptions={}) ::= <<
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>)<\n  >>
  ```

- **`/** plain -> {foo} action */**`

  ```
  rewriteAction(action) ::= <<
  root_0 = <action><\n  ```
/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());
>>
createImaginaryNode(tokenType, args, terminalOptions={}) ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator="","><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator="","><if(!args)"<tokenType>"<endif>)
<endif>
%

createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.NextToken(<if(args)>, <args; separator="","><endif>)
<else>
<if(args)><! must create new node from old !>
adaptor.Create(<token>, <args; separator="",">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
%

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp2/AST.stg
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*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.StringTemplate;
using Antlr.StringTemplate.Language;
<if(!backtracking)>
using Hashtable = System.Collections.Hashtable;
<endif>
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate _st;
public StringTemplate Template { get { return _st; } set { _st = value; } }
public override string ToString() { return (Template==null) ? string.Empty : Template.ToString(); }
>>

@genericParser.members() ::= <<
<@super.members()>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateLib
{
    get { return this.templateLib; }
    set { this.templateLib = value; }
}

/// \<summary> Allows convenient multi-value initialization:
/// "new STAttrMap().Add(...).Add(...)"
/// \</summary>
protected class STAttrMap : Hashtable
{
public STAttrMap Add(string attrName, object value)
{
base.Add(attrName, value);
return this;
}
public STAttrMap Add(string attrName, int value)
{
    base.Add(attrName, value);
    return this;
}
}

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
    <ruleRef(...)>
    <listLabel(elem=label+".Template",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
@if(backtracking)
if ( <actions.(actionScope).synpredgate> )
{
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    }<else>
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
    </if(TREE_PARSER>)
    ((TokenRewriteStream)input.TokenStream).Replace(input.TreeAdaptor.GetTokenStartIndex(retval.Start),
    input.TreeAdaptor.GetTokenStopIndex(retval.Start),
    retval.Template);
</else>
    ((TokenRewriteStream)input).Replace((IToken)retval.Start).TokenIndex,
    input.LT(-1).TokenIndex,
    retval.Template);
}<<

// <it.description>
<if(it.pred)>
if (<it.pred>) {
    retval.Template = <it.alt>;
}<\n>
<else>
{
    retval.Template = <it.alt>;
}<\n>
<endif>

rewriteEmptyTemplate(alts) ::= <\nnull;  
<\n>
/** Invoke a template with a set of attribute name/value pairs. * Set the value of the rule's template *after* having set * the attributes because the rule's template might be used as * an attribute to build a bigger template; you get a self-embedded * template. */
rewriteExternalTemplate(name,args) ::= <\n    templateLib.GetInstanceOf("<name>"<if(args)>
        new STAttrMapARGS{a | .Add("<a.name>", <a.value>)}
    <endif>)
<\n>
/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <\n    templateLib.GetInstanceOf(<expr><if(args)>
        new STAttrMapARGS{a | .Add("<a.name>", <a.value>)}
    <endif>)
<\n>
/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <\n    new StringTemplate(templateLib, "<template>"<if(args)>
        new STAttrMapARGS{a | .Add("<a.name>", <a.value>)}
    <endif>)
<\n>
/** plain -> {foo} action */
rewriteAction(action) ::= <\n    <action>
<\n>
/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <\n
(</st>).SetAttribute("<attrName>".expr);
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

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* */
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
  * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
  */

parserMembers() ::= <<
  protected DebugTreeAdaptor adaptor;

  public ITreeAdaptor TreeAdaptor
  {
    get
    {
      return adaptor;
    }
    set
    {
      <if(grammar.grammarIsRoot)>
        this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
      <else>
        this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
      </endif>
      <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}
    }
  }
>>

parserCtorBody() ::= <<
  <super.parserCtorBody()>
>>

cREATEListenerAndHandshake() ::= <<
  DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
  <if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
  DebugListener = proxy;
  <inputStreamType> = new Debug<inputStreamType>( input, proxy );
  try
  {
    proxy.Handshake();
  }
  catch ( IOException ioe )
  {
    ReportError( ioe );
  }
>>

@ctorForRootGrammar.finally() ::= <<
  ITreeAdaptor adap = new CommonTreeAdaptor();
  TreeAdaptor = adap;
  proxy.TreeAdaptor = adap;
>>
@ctorForProfilingRootGrammar.finally() ::=<<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= "base( input, dbg )"

@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp2/ASTDbg.stg

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**/ 
group AST;

@outputFile.imports() ::= <<
  @_super.imports()>
>>

@genericParser.members() ::= <<
  @_super.members(),
  <@parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  !protected TreeAdaptor adaptor = new CommonTreeAdaptor();

  setTreeAdaptor: function(adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>}
  }

getTreeAdaptor: function() {
  return this.adaptor;
},
>>

@returnScope.ruleReturnMembers() ::= <<
  getTree: function() { return this.tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  @super.ruleDeclarations()

  var root_0 = null;

>>

ruleLabelDefs() ::= <<
  @super.ruleLabelDefs()

  <ruleDescriptor.tokenLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.tokenListLabels:{var <it.label.text>_tree=null;}; separator="\n">
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
root_0 = this.adaptor.nil();
@endif
@endif
@endif>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
@endif
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...>)
<listLabel(elem=label,...)>>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);
@endif
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...>)
<listLabel(elem=label,...)>>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<label>(elem=label+".getTree()",...)
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<label>(elem=label+".getTree()",...)
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<label>(elem=label+".getTree()",...)
>>

// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef().tree = root_0;
<rewriteCodeLabels()>
root_0 = this.adaptor.nil();
<alt_rewrite() separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
    this.adaptor.getChildIndex(_last),
    retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it>"",<it>);};
    separator="\n"
>
<referencedTokenListLabels
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token <it>"", list_<it>);};
    separator="\n"
>
<referencedWildcardLabels
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>"",<it>);};
    separator="\n"
>
<referencedWildcardListLabels
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>"", list_<it>);};
    separator="\n"
>
<referencedRuleLabels
    :{var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>"",<it>!=null?<it>.tree:null);};
    separator="\n"
>
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= 
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext(); separator="|"}> ) {
    <alt>
} <referencedElementsDeep:{el | stream_<el>.reset();\n}> 
>>

rewriteClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= 
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext(); separator="|"}> ) {
    <alt>
} <referencedElements:{el | stream_<el>.reset();\n}> 
>>

rewritePositiveClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= 
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext(); separator="|"}>) ) {
    throw new org.antlr.runtime.tree.RewriteEarlyExitException();
} 
while ( <referencedElements:{el | stream_<el>.hasNext(); separator="|"}> ) {
    <alt>
} <referencedElements:{el | stream_<el>.reset();\n}> 
>>
rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>) {
  <a.alt>
}<<
}else{
  <a.alt>
}<
<endif>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
  var root_<treeLevel> = this.adaptor.nil();
  <root:rewriteElement()>
  <children:rewriteElement()>
  this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  #@pregen()>
  <e.el>
]<<

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
  this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
  this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
  this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<
>>
/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[<args>] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
  root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
  this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
  root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...>),
  root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
  root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree?  This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
  this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
  root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
  this.adaptor.addChild(root_<treeLevel>, <action>);
>>
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */
parserMembers() ::= <<
DebugTreeAdaptor *adaptor = [DebugTreeAdaptor newTreeAdaptor:(id)dbg Adaptor:[CommonTreeAdaptor newTreeAdaptor]];

// fix this
- (void) setTreeAdaptor:(id<TreeAdaptor>)anAdaptor
{
    adaptor = [DebugTreeAdaptor newTreeAdaptor:dbg Adaptor:anAdaptor];
    <if(grammar.grammarIsRoot)>
    adaptor = [DebugTreeAdaptor newTreeAdaptor:adaptor withDBG:dbg];
    <else>
    adaptor = (DebugTreeAdaptor *)adaptor; // delegator sends dbg adaptor
    <endif> <

    <grammar.directDelegates:{g|[<g:delegateName()> setTreeAdaptor:adaptor];}>}
}

- (id<TreeAdaptor>)getTreeAdaptor
{
    return adaptor;
} <
>>

parserCtorBody() ::= <<
    <super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
    DebugEventSocketProxy proxy =
        [DebugEventSocketProxy newDebugEventSocketProxy:self, port, <if(TREE_PARSER)>({input getTreeAdaptor}<else>adaptor<endif});];

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[self setDebugListener:proxy];
[self setInputStreamType:[Debug inputStreamType> newDebug inputStreamType>:input with:proxy]];
try {
    [proxy handshake];
}
@catch (IOException *ioe) {
    [self reportError:ioe];
}
>>

@ctorForRootGrammar.finally() ::= <<
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForPredefinedListener.superClassRef() ::= @"super(input, dbg);"

@ctorForPredefinedListener.finally() ::=<<
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
</if>
@endif
>>

@treeParserHeaderFile.superClassName ::= "DebugTreeParser"

@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"

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  * /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
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/** Templates for building ASTs during normal parsing.
 */
/**
 * Deal with many combinations. Dimensions are:
 *   Auto build or rewrite
 *   no label, label, list label (label/no-label handled together)
 *   child, root
 *   token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/*** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  <super.tokenRef(...>)
  <if(backtracking)>if (state.backtracking == 0) {<endif>
    <label>_tree = <createNodeFromToken(...)>;
  </label>_tree = <createNodeFromToken(...)>;
  adaptor.AddChild(root_0, <label>_tree);
  </if(backtracking)>"+((CommonTree)retval.tree).toStringTree()); !>

 与时俱(label.name, <label>_tree, state.backtracking == 0);

>>
/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)
@if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = <createNodeFromToken(...)>
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
@if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)
<labelListElem(elem=label,elemType=labelType,...)> >>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)
<labelListElem(elem=label,elemType=labelType,...)> >>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)
<labelListElem(elem=label,elemType=labelType,...)> >>

// SET AST
// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)}}
<\texttt{endif}>\texttt{adaptor.AddChild(root\_0, createNodeFromToken(...));}, ...>)

>>

\texttt{matchRuleBlockSet(s, label, elementIndex, postmatchCode, treeLevel="0", terminalOptions={} ) := <<
<matchSet(...)>
>>

\texttt{matchSetBang(s, label, elementIndex, postmatchCode, terminalOptions={}) := "<super.matchSet(...)">

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

\texttt{matchSetRuleRoot(s, label, elementIndex, debug, terminalOptions={}) := <<
<\texttt{if}(label)>
<label>=(\texttt{labelType})input.LT(1);
<\texttt{endif}>
<super.matchSet(postmatchCode={ if(backtracking) if (actions.(actionScope).synpredgate) } root\_0 =
(\texttt{ASTLabelType})adaptor.BecomeRoot(createNodeFromToken(...), root\_0);}, ...>)
>>

// RULE REF AST

/** rule when output=AST */
\texttt{ruleRef(rule, label, elementIndex, args, scope) := <<
<super.ruleRef(...)>
<\texttt{if}(backtracking)>if (actions.(actionScope).synpredgate) <\texttt{endif}>adaptor.AddChild(root\_0, label.Tree);
>>

/** rule! is same as normal rule ref */
\texttt{ruleRefBang(rule, label, elementIndex, args, scope) := "<super.ruleRef(...)>

/** rule^ */
\texttt{ruleRefRuleRoot(rule, label, elementIndex, args, scope) := <<
<super.ruleRef(...)>
<\texttt{if}(backtracking)>if (actions.(actionScope).synpredgate) <\texttt{endif}>root\_0 =
(\texttt{ASTLabelType})adaptor.BecomeRoot(label.Tree, root\_0);
>>

/** x+=rule when output=AST */
\texttt{ruleRefAndListLabel(rule, label, elementIndex, args, scope) := <<
<ruleRef(...)>
<listLabelElem(elem={ label.Tree }, elemType=ASTLabelType,...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
\texttt{ruleRefBangAndListLabel(rule, label, elementIndex, args, scope) := <<
<ruleRefBang(...)>
<listLabelElem(elem={ label.Tree }, elemType=ASTLabelType,...)>

---

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/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)> >>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(token=[],...)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,terminalOptions={}) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>({<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string">}<endif>
<else>
(<ASTLabelType>)adaptor.Create({<if(terminalOptions.type)><terminalOptions.type>,<endif><label>{<if(terminalOptions.text)>,<terminalOptions.text; format="string">}<endif>
<endif>
%

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)>}<endif>
>>

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/** How to generate rules derived from left-recursive rules.
 * These rely on recRuleDefArg(), recRuleAltPredicate(),
 * recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
 * templates in main language.stg
 */

group LeftRecursiveRules;

recRuleName(ruleName) ::= "<ruleName>_
recPrimaryName(ruleName) ::= "<ruleName>._primary"

recRuleStart(ruleName, minPrec, userRetvals, userRetvalAssignments) ::= <<
  <ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
  : <recRuleName(...)>[<minPrec>]
  <if(userRetvals)>
    {<userRetvalAssignments; separator="\n">
recRule(ruleName, precArgDef, argName, alts, setResultAction, buildAST,
        userRetvals, userRetvalAssignments) ::= <<
<recRuleName(...)>[<precArgDef>]<if(userRetvals)> returns [<userRetvals>]<endif>
:   <recPrimaryName(...)>
<if(buildAST)>
   {<setResultAction>
}
<endif>
<if(userRetvals)>
   {
      <userRetvalAssignments; separator="\n">
   }
<endif>
( options {backtrack=false;}
: ( options {backtrack=false;}
   : <alts; separator="\n   | ">
   )
)*
;
>>

recPrimaryRule(ruleName, alts, userRetvals) ::= <<
<recPrimaryName(...)><if(userRetvals)> returns [<userRetvals>]<endif>
options {backtrack=true;}
: <alts; separator="\n   | ">
;
>>

recRuleAlt(alt, pred) ::= "{<pred>}?=> <alt>"

recRuleRef(ruleName, arg) ::= "<recRuleName(...)>[<arg>]"

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ActionParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ActionEvaluatorTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/DefaultTemplateLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/InterfaceParserTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ActionLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/GroupLexer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/TemplateParserTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/ActionEvaluator.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/GroupParserTokenTypes.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/AngleBracketTemplateLexerTokenTypes.java
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 */
/** ANTLR's code generator.
 *
 * Generate recognizers derived from grammars. Language independence
 * achieved through the use of STGroup objects. All output
 * strings are completely encapsulated in the group files such as Java.stg.
 * Some computations are done that are unused by a particular language.
 * This generator just computes and sets the values into the templates;
 * the templates are free to use or not use the information.
 *
 * To make a new code generation target, define X.stg for language X
 * by copying from existing Y.stg most closely releated to your language;
* e.g., to do CSharp.stg copy Java.stg. The template group file has a
* bunch of templates that are needed by the code generator. You can add
* a new target w/o even recompiling ANTLR itself. The language=X option
* in a grammar file dictates which templates get loaded/used.
*
* Some language like C need both parser files and header files. Java needs
* to have a separate file for the cyclic DFA as ANTLR generates bytecodes
* directly (which cannot be in the generated parser Java file). To facilitate
* this,
*
* cyclic can be in same file, but header, output must be separate. recognizer
* is in outputfile.
*/

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  jar/org/antlr/codegen/CodeGenerator.java
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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. */

@outputFile.imports() ::= <<
<@super.imports()>

@if(!TREE_PARSER)>
<! tree parser would already have imported !>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleITokenStream;
@endif>
>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
<treeAdaptorType()> treeAdaptor = default(<treeAdaptorType()>);
CreateTreeAdaptor(ref treeAdaptor);
TreeAdaptor = treeAdaptor@if(!actions.(actionScope).treeAdaptorType)> ?? new CommonTreeAdaptor<endif>;
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void CreateTreeAdaptor(ref <treeAdaptorType()> adaptor);

private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
    get
    {
        return adaptor;
    }

    set
    {
        this.adaptor = value;
        <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>}
    }
>>

treeAdaptorType() ::= <<
ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);

>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <%
<super.ruleLabelDefs(...)>
<if(!ruleDescriptor.isSynPred)>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
:[if]<\n><ASTLabelType> _tree = default(<ASTLabelType>);}\n<ruleDescriptor.tokenListLabels:[it]<\n><ASTLabelType> _tree = default(<ASTLabelType>);}\n<ruleDescriptor.allTokenRefsInAltsWithRewrites
:[if]<\n>RewriteRule<rewriteElementType>Stream stream_<it>=new RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}\n<ruleDescriptor.allRuleRefsInAltsWithRewrites
:[if]<\n>RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}\n
>>

/** When doing auto AST construction, we must define some variables; *
  * These should be turned off if doing rewrites. This must be a "mode"
  * as a rule could have both rewrite and AST within the same alternative
  * block.
  */
@alt.declarations() ::= <<
<if(autoAST && outerAlt && !rewriteMode && !ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.Nil();
@end

>>

// T r a c k i n g  R u l e  E l e m e n t s

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
@end

>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.  */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRefTrack(...)
  <listLabelElem(elem=label,elemType=labelType,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRefBang(...)
  <if(backtracking)>if ((actions.(actionScope).synpredgate)) <endif>stream_<token>.Add(<label>);
  >>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRefRuleRootTrack(...)
  <listLabelElem(elem=label,elemType=labelType,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  <super.ruleRef(...)
  <if(backtracking)>if ((actions.(actionScope).synpredgate)) <endif>stream_<rule.name>.Add(<label>.Tree);
  >>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefTrack(...)
  <listLabelElem(elem={[label].Tree},elemType=ASTLabelType,...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)
  <if(backtracking)>if ((actions.(actionScope).synpredgate)) <endif>stream_<rule>.Add(<label>.Tree);
  >>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRootTrack(...)
  <listLabelElem(elem={[label].Tree},elemType=ASTLabelType,...)>
>>

// Rewrite

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<up>{
// AST REWRITE
// elements: <referencedElementsDeep; separator="", ">
// token labels: <referencedTokenLabels; separator="", ">
// rule labels: <referencedRuleLabels; separator="", ">
// token list labels: <referencedTokenListLabels; separator="", ">
// rule list labels: <referencedRuleListLabels; separator="", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="", ">
<if(backtracking)>
if ((actions.(actionScope).synpredgate) ) { 
<endif>
<prevRuleRootRef()>.Tree = root_0;
<rewriteCodeLabels();>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER&&rewriteMode)>
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
if ( (prevRuleRootRef()>.Tree != null)
input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last), retval.Tree);
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER||!rewriteMode)>
<prevRuleRootRef()>.Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {[it]RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>".,<it>());}; separator="n"
>
<referencedTokenListLabels
: {[it]RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>"., list_<it>());};
/** Generate code for an optional rewrite block; note it uses the deep ref'd element */
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
    // <fileName>:<description>
    if (referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||")
    {
      <alt>
    }
  
  
>>

rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
    // <fileName>:<description>
    while (referencedElements:{el | stream_<el>.HasNext}; separator="||")
    {
      <alt>
rewritePositiveClosureBlock(
    alt, rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::= <<
    if ((<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
    {
        throw new RewriteEarlyExitException();
    }
    while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
    {
        <alt>
    }
    <referencedElements:{el | stream_<el>.Reset();
}>>

rewriteAlt(a) ::= <<
    // <a.description>
    <if(a.pred)>
    if (<a.pred>)
    {
        <a.alt>
    }
    <else>
    {
        <a.alt>
    }
    <endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root, children, description, enclosingTreeLevel, treeLevel) ::= <<
    // <fileName>:<description>
    {
        <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
        <root:rewriteElement()>
        <children:rewriteElement()>
        adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
    }<\n>
>>
rewriteElementList(elements) ::= "<elements:rewriteElement()＞"

rewriteElement(e) ::= <%
    @pregen()
    DebugLocation(<e.line>, <e.pos>);\n    <e.el>
%>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,args,terminalOptions={}) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);\n>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());\n>>

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
    root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);\n>>

/** Gen ^(ID ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<n>
createImaginaryNode(tokenType, args, terminalOptions={}) ::= <%
<if(terminalOptions.node)>
! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>({tokenType}<if(args)>, <args; separator="", "><endif>
<else>
(<ASTLabelType>) adaptor.Create(<tokenType>, <args; separator="", "><if(!args)"<tokenType>"<endif>)
<endif>
%
>

createRewriteNodeFromElement(token, args, terminalOptions={}) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.NextToken()<if(args)>, <args; separator="", "><endif>
<else>
<if(args)> <! must create new node from old !>
adaptor.Create( <token>, <args; separator="", ">) 
<else>
stream_<token>.NextNode()
<endif>
<endif>
%
>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/interpreter/GroupParser.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STModelAdaptor.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/interpreter/STNoSuchPropertyException.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/interpreter/JTreeScopeStackModel.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STLexerMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/STGroupFile.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/ST.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/AttributeRenderer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/interpreter/Interpreter.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/debug/InterpEvent.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/BytecodeDisassembler.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STRuntimeMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/STWriter.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STNoSuchAttributeException.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/CompiledArguments.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/debug/ConstructionEvent.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/CompilationState.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/AggregateModelAdaptor.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/gui/STViz.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/Coordinate.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/STGroupString.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/STGroup.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/debug/IndentEvent.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STCompiletimeMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/STGroupDir.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/STGroup.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STCompiletimeMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/STMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/Misc.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/gui/JTreeSTModel.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/misc/Interval.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/CompiledST.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/CodeGenerator.java
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```java
javaTypeInitMap ::= [
    "int": "0",
    "long": "0",
    "float": "0.0f",
    "double": "0.0",
    "boolean": "false",
    "byte": "0",
    "short": "0",
    "char": "0",
    default: "null" // anything other than an atomic type
]
```

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "true": "true",
    "false": "false",
    default: "false"
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */

```java
outputFile(LEXER, PARSER, TREE_PARSER, actionScope, actions, docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
    // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
    <actions.(actionScope).header>
```
import org.antlr.runtime.*;
<if(TREE_PARSER)>
import org.antlr.runtime.tree.*;
<endif>
import java.util.Stack;
import java.util.List;
import java.util.ArrayList;
<if(backtracking)>
import java.util.Map;
import java.util.HashMap;
<endif>

@docComment
@SuppressWarnings("all")
<recognizer>

>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
    superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
    <tokens:{it | public static final int <it.name>=<it.type>;}; separator="\n"
    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}}>globalAttributeScope(it)<endif> }
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
    {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"
    // delegators
    <grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n"
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>}
    public <superClass>[] getDelegates() {
        return new <superClass>[] {<grammar.delegates: {g|<g:delegateName()>}; separator = ", ">};
    }

    public <grammar.recognizerName>() {} <! needed by subclasses !>
    public <grammar.recognizerName>(CharStream input<grammar.delegators:{g|, <g.recognizerName>
    <g:delegateName()>}>) {
        this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.recognizerName>
        <g:delegateName()>}>);
    }
    public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|,
        <g.recognizerName> <g:delegateName()>}>) {
        super(input, state);
        <if(memoize)>
        <if(grammar.grammarIsRoot)>
        }}

    <>

<@end>
state.ruleMemo = new HashMap[<numRules>+1];
<endif>
<endif>
<grammar.directDelegates:
[\{g|<g:delegateName()> = new <g.recognizerName>(input, state\trunc(g.delegators):[p|, <p:delegateName()> ]>,
this);\}; separator="\n">
<grammar.delegators:
[\{g\this.<g:delegateName()> = <g:delegateName>();\}; separator="\n">
<last(grammar.delegators):[g|gParent = <g:delegateName>();]>
}
@Override public String getGrammarFileName() { return "<fileName>"; }

@if(filterMode)  
<filteringNextToken()>  
@endif  
<rules; separator="\n\n">  

@synpreds:{p | <lexerSynpred(p)> }

@cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this);}; separator="\n">
<cyclicDFAs:cyclicDFA(); separator="\n">  

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
@Override
public Token nextToken() {
while (true) {
if ( input.LA(1)==CharStream.EOF ) {
Token eof = new CommonToken(input,Token.EOF,
Token.DEFAULT_CHANNEL,
input.index(),input.index());
eof.setLine(getLine());
eof.setCharPositionInLine(getCharPositionInLine());
return eof;
}
state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
state.tokenStartCharIndex = input.index();
state.tokenStartCharPositionInLine = input.getCharPositionInLine();

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state.tokenStartLine = input.getLine();
state.text = null;
try {
    int m = input.mark();
    state.backtracking=1; <! means we won't throw slow exception !>
    state.failed=false;
    mTokens();
    state.backtracking=0;
    <! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( state.failed ) {
        input.rewind(m);
        input.consume(); <! advance one char and try again !>
    } else {
        emit();
        return state.token;
    }
}
catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}

@Override
public void memoize(IntStream input,
        int ruleIndex,
        int ruleStartIndex)
{
    if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

@Override
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}

>>

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
  <if(grammar.grammarIsRoot)>
  public static final String[] tokenNames = new String[] {
    "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator=", ", wrap="\n\t"
  };
  <endif>
  <tokens:{it |public static final int <it.name>=<it.type>;}; separator="\n">

  // delegates
  <grammar.delegates: {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
  public <superClass>[] getDelegates() {
    return new <superClass>[] {<grammar.delegates: {g|<g:delegateName()>}; separator = ", ">};
  }

  // delegators
  <grammar.delegators:
  {g|public <g.recognizerName> <g:delegateName()>;}; separator="\n">
  <last(grammar.delegators):{g|public <g.recognizerName> gParent;}> <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}> <@members>
  <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
  public <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
  <g:delegateName()>}>) {
    this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}>);
  }
  public <grammar.recognizerName>(<inputStreamType> input, RecognizerSharedState
  state<grammar.delegators:{g, <g.recognizerName> <g:delegateName()>}>)) {
    super(input, state);
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>},
    this);}; separator="\n"}
    <grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>}
  }<@end>

  @Override public String[] getTokenNames() { return
  <grammar.composite.rootGrammar.recognizerName>.tokenNames; }
  @Override public String getGrammarFileName() { return "<fileName>"; }
  <members>
<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor}
public <returnType(ruleDescriptor)> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>)
throws <ruleDescriptor.throwsSpec; separator="", "> { <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)>
ru
leDescriptor.parameterScope.attributes:{a|<a.name>}; separator="", "><endif>; \})}; separator="\n">

<synpreds:{p | <synpred(p)>>

<grammar.delegators:{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
words64=it.bits)}>}; separator="\n">

> parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new HashMap[length(grammar.allImportedRules)]+1];\n</if(grammar.grammarIsRoot)>

<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="Object", superClass="Parser", labelType="Token",
members=[<actions.parser.members>]) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, "TokenStream", superClass,
labelType, members, "Token",
false, ASTLabelType)>

>><

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
numRules, bitsets, filterMode, labelType=[<ASTLabelType>], ASTLabelType="Object",
superClass=[<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>],

---

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/**
 * A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc.... just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
    @start()
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !state.failed;
    input.rewind(start);
>>

synpred(name) ::= <<
    state.backtracking++;
    <@start()>
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !state.failed;
    input.rewind(start);
>>
lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) {
<returnStatement(({<ruleReturnValue()>}))> }
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) <returnStatement(({<ruleReturnValue()>}))><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)>if (state.backtracking>0) {state.failed=true;
<returnStatement(({<ruleReturnValue()>}))} <endif>
>>

/** How to generate code for a rule.  This includes any return type
*  data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
@ruleAttributeScope(scope=ruleDescriptor.ruleScope)
@returnScope(scope=ruleDescriptor.returnScope)
// $ANTLR start "<ruleName>"
// <fileName>:<description>
@if(isPredefinedRewriteRule.(ruleName) && filterMode && buildAST)
@Override
@endif
public final <returnType(ruleDescriptor)> <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>) throws <ruleDescriptor.throwsSpec:{x|<x>}; separator=", "> {
@if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <ruleDescriptor.actions.after):execAction()>
    }
    <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)>\n}>
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
    <else>
    catch (RecognitionException re) {
    reportError(re);
    recover(input,re);
    <setErrorReturnValue()>
    }
    <endif>
    <endif>
    <endif>
    finally {
        // do for sure before leaving
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <memoize()>
        <ruleScopeCleanUp()>
        <finally>
    }
    <@postamble()>
    <returnStatement(({<ruleReturnValue()>}), false)>
}
// $ANTLR end "<ruleName>"
>>

returnStatement(returnValue, force=true) ::= <%
<if(!isEmptyString.(returnValue))>
return <returnValue>;
<elseif(force)>
return;
<endif>
%>
catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}>>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
retval.start = input.LT(1);
<elseif(ruleDescriptor.returnScope)>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> a.name = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_StartIndex = input.index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{it |<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it |<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]:{it |<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]:{it |List<Object> list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]:{it |<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{it |List<Object> list_<it.label.text>=null;}; separator="\n"
>
>>
ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%
>
ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);
<endif>
<endif>
>>
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>) throws RecognitionException
{
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);
<endif>
<ruleScopeSetUp()> 
<ruleDeclarations()> 
try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<else>
int _type = <ruleName>;
int _channel = DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
state.type = _type;
state.channel = _channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
// do for sure before leaving
@if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
memoize()}
}
// $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule
*  that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
@Override
public void mTokens() throws RecognitionException {
<block>
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i,a)>}>
}
<@postbranch()>
>>
/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int alt<decisionNumber>==maxAlt;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i,a)>}}
  }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>
  <alts>
  <@postalt()>
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int cnt<decisionNumber>=0;
  <decls>
  <@preloop()>
  loop<decisionNumber>:
    while (true) {
      int alt<decisionNumber>==maxAlt;
      <@predecision()>
      <decision>
      <@postdecision()>
      switch (alt<decisionNumber>) {
        <alts:{a | <altSwitchCase(i,a)>}}
        default :
          if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
    }
EarlyExitException eee = new EarlyExitException(<decisionNumber>, input);
throw eee;

cnt<decisionNumber>++;

postloop()

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
<decls>
<preloop()>
loop<decisionNumber>:
while (true) {
int alt<decisionNumber>=<maxAlt>;
<predecision()>
<decision>
<prepostdecision()>
switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i,a)>>}
default :
break loop<decisionNumber>;
}
}
<prepostloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
onOptionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative */
optionalBlockSingleAlt ::= block

/* A case in a switch that jumps to an alternative given the alternative */
/* so we can just use the normal block template */
altSwitchCase(altNum,alt) ::= <<

// <fileName>:<description>
<decls>
<preloop()>
loop<decisionNumber>:
while (true) {
int alt<decisionNumber>;<maxAlt>;
<predecision()>
<decision>
<prepostdecision()>
switch (alt<decisionNumber>) {
<alts:{a | <altSwitchCase(i,a)>}
default :
break loop<decisionNumber>;
}
}
<prepostloop()>
>>
```plaintext
/** An alternative is just a list of elements; at outermost level */
alt(elements, altNum, description, autoAST, outerAlt, treeLevel, rew) ::= <<
// <fileName>:<description>
{
    @declarations()
    <elements:element()>
    <rew>
    @cleanup()
}
>>

/** What to emit when there is no rewrite. For auto build */
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
    @prematch()
    <e.el>
>>

/** Match a token optionally with a label in front */
tokenRef(token, label, elementIndex, terminalOptions={}) ::= <<
    if(label) label = (<labelType>) match(input, <token>, FOLLOW_<token>_in_<ruleName>_in_<elementIndex>)
    ; checkRuleBacktrackFailure()
>>

/** ids+=ID */
tokenRefAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
    tokenRef(token, label, elementIndex, terminalOptions={})
    <listLabel(label, label)>
>>

listLabel(label, elem) ::= <<
    if (list_<label>==null) list_<label>=new ArrayList<Object>();
    list_<label>.add(<elem>);
>>

/** Match a character */
charRef(char, label) ::= <<
```

---

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/** match a character range */
charRangeRef(a,b,label) ::= <<
<input.LA(1);>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions=[]) ::= <<
<input.LA(1);>
if ( <s> ) {
    input.consume();
    <postmatchCode>
</if(!LEXER)>
state.errorRecovery=false;
<!-- use following code to make it recover inline; remove throw mse;-->
recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
<!-- throw mse;-->
} else {
    <ruleBacktrackFailure()>
    MismatchedSetException mse = new MismatchedSetException(null,input);
    <throw mse>
}</if(!LEXER)>
recover(mse);
throw mse;
<!-- throw mse;-->
matchRuleBlockSet ::= matchSet
matchSetAndListLabel(s, label, elementIndex, postmatchCode) ::= <<
<matchSet(...)>
<ListLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string, label, elementIndex="0") ::= <<
<if(label)>
int <label>Start = getCharIndex();
match(<string>); <checkRuleBacktrackFailure()>
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(token, label, elementIndex, terminalOptions={}) ::= <<
<if(label)>
<label> = <castToLabelType("input.LT(1)")>;
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
wildcardChar(label, elementIndex)
<ListLabel(label, label)>
>>

/** Match \wildcard\ in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);
<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
wildcardChar(label, elementIndex)
<ListLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments */
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
#if(label)<label>=#if(scope)#scope:delegateName().#endif#rule.name(#args; separator=", ");
state._fsp--;
</checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
</listLabel(label, label)>
>>
/** A lexer rule reference.
* 
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
#if(label)
int <label>Start<elementIndex> = getCharIndex();
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
#elif(scope)#scope:delegateName().#endif#m<rule.name(#args; separator=", ");
</checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
#else
#if(scope)#scope:delegateName().#endif#m<rule.name(#args; separator=", ");
</checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
</listLabel(label, label)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
  <if(label)>
    int <label>Start<elementIndex> = getCharIndex();
    int <label>StartLine<elementIndex> = getLine();
    int <label>StartCharPos<elementIndex> = getCharPositionInLine();
    match(EOF); <checkRuleBacktrackFailure()>
    <labelType> <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
      getCharIndex()-1);
    <label>.setLine(<label>StartLine<elementIndex>);
    <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
  <else>
    match(EOF); <checkRuleBacktrackFailure()>
  <endif>
  <endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) { 
      match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
      <children:element()>
      match(input, Token.UP, null); <checkRuleBacktrackFailure()>
    } 
  <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
  <endif>
  >>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
  if (!<evalPredicate(pred,description)>) { 
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
  }

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// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
  <edges; separator="{}">
  <if((!isTrue.(last(edges).labelExpr)) && (!last(edges).predicates))>
    else {
  <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
  <else>
  <ruleBacktrackFailure()>
  <(nvaExceptionWrapperMap.(k))>({NoViableAltException nva =
    new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
    @{noViableAltException()}
    throw nvae;})
  <endif>
  <endif>
  }
  <endif>
>>

nvaExceptionWrapperMap ::= [
  "1":"wrapNvaExceptionForK1",
  "2":"wrapNvaExceptionForK2",
  default:"wrapNvaExceptionForKN"
]

wrapNvaExceptionForK1(exceptionCode) ::= <<
  <exceptionCode>
>>

wrapNvaExceptionForK2(exceptionCode) ::= <<
  int nvaeMark = input.mark();
  try {
    input.consume();
    <exceptionCode>
  } finally {
    input.rewind(nvaeMark);
  }
>>

wrapNvaExceptionForKN(exceptionCode) ::= <<
  int nvaeMark = input.mark();
  try {
    for (int nvaeConsume = 0; nvaeConsume \< <k> - 1; nvaeConsume++) {
      input.consume();
    }
  }
/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
alt<decisionNumber>=<eotPredictsAlt>;
}
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
<targetState>
}
>>
// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
  default:
  <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
  </if>
  <ruleBacktrackFailure()>
  <(nvaExceptionWrapperMap.(k))>({NoViableAltException nvae =
    new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
    @noViableAltException()}
    throw nvae;})>
</if>
}
>>

dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
}
>>

dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
<if(eotPredictsAlt)>
  default:
  alt<decisionNumber>=<eotPredictsAlt>;
  break;
</if>
}
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it | case <it>:}; separator="\n">
<targetState>
}
break;
>>

// Cyclic DFA
/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

dfaDecision(decisionNumber,description) ::= <<
  alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
  static final String DFA<dfa.decisionNumber>_eotS =
    "<dfa.javaCompressedEOT; wrap=""\""">";
  static final String DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap=""\""">";
  static final String DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap=""\""">";
  static final String DFA<dfa.decisionNumber>_maxS =
    "<dfa.javaCompressedMax; wrap=""\""">";
  static final String DFA<dfa.decisionNumber>_acceptS =
    "<dfa.javaCompressedAccept; wrap=""\""">";
  static final String DFA<dfa.decisionNumber>_specialS =
    "<dfa.javaCompressedSpecial; wrap=""\""">";
  static final String[] DFA<dfa.decisionNumber>_transitionS = {
    <dfa.javaCompressedTransition: {s|<s; wrap=""\""">"}; separator="\n"> }

  static final short[] DFA<dfa.decisionNumber>_eot =
    DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
  static final short[] DFA<dfa.decisionNumber>_eof =
    DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);
  static final char[] DFA<dfa.decisionNumber>_min =
    DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
  static final char[] DFA<dfa.decisionNumber>_max =
    DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
  static final short[] DFA<dfa.decisionNumber>_accept =
    DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
  static final short[] DFA<dfa.decisionNumber>_special =
    DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
  static final short[][] DFA<dfa.decisionNumber>_transition;
  
  static final String DFA<dfa.decisionNumber>_specialS =
    "<dfa.javaCompressedSpecial; wrap=""\""">";
  static final char[] DFA<dfa.decisionNumber>_special =
    DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_specialS);
  static final short[][] DFA<dfa.decisionNumber>_transition;
static {
    int numStates = DFA<dfa.decisionNumber>_transitionS.length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for (int i=0; i<numStates; i++) {
        DFA<dfa.decisionNumber>_transition[i] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

protected class DFA<dfa.decisionNumber> extends DFA {
    public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
        this.recognizer = recognizer;
        this.decisionNumber = <dfa.decisionNumber>;
        this.eot = DFA<dfa.decisionNumber>_eot;
        this.eof = DFA<dfa.decisionNumber>_eof;
        this.min = DFA<dfa.decisionNumber>_min;
        this.max = DFA<dfa.decisionNumber>_max;
        this.accept = DFA<dfa.decisionNumber>_accept;
        this.special = DFA<dfa.decisionNumber>_special;
        this.transition = DFA<dfa.decisionNumber>_transition;
    }
    @Override
    public String getDescription() {
        return "<dfa.description>";
    }
    @errorMethod()
    @if(dfa.specialStateSTs)
    @Override
    public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
        @if(LEXER)
        IntStream input = _input;
        @endif
        @if(PARSER)
        TokenStream input = (TokenStream)_input;
        @endif
        @if(TREE_PARSER)
        TreeNodeStream input = (TreeNodeStream)_input;
        @endif
        int _s = s;
        switch ( s ) {
            <dfa.specialStateSTs:{state |
            case <i0> : <! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">
        }
        @if(backtracking)
        if (state.backtracking>0) {state.failed=true; return -1;}
        @endif
        NoViableAltException nvae =
new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
error(nvae);
throw nvae;
}
<endif>
>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();
<endif>
s = -1;
<edges; separator="\\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);
<endif>
if ( s>=0 ) return s;
break;
>>
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;
>>
/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;
>>

// D F A  E X P R E S S I O N S

andPredicates(left,right) ::= "(<left>&&<right>)"
orPredicates(operands) ::= "(<operands; separator="\|\|">)"
notPredicate(pred) ::= "!(<evalPredicate(pred,{}))"
**evalPredicate(pred,description) ::= "(<pred>)"**

**evalSynPredicate(pred,description) ::= " <pred>()"**

**lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"**

```/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"
```

**lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> <= <upper>)%
**

```isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >= <lower>
&& input.LA(<k>) <= <upper>)"
```

**setTest(ranges) ::= <<
<ranges; separator="||">
>>**

```// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
<scope.attributes:{it |<it.decl>;}; separator="\n"}
}
protected Stack\<<scope.name>_scope> <scope.name>_stack = new Stack\<<scope.name>_scope>();
<endif>
>>
```

```ruleAttributeScope(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
protected static class <scope.name>_scope {
<scope.attributes:{it |<it.decl>;}; separator="\n"}
}
protected Stack\<<scope.name>_scope> <scope.name>_stack = new Stack\<<scope.name>_scope>();
<endif>
<endif>
>>
```

**returnStructName(r) ::= "<r.name>_return"**

**returnType(ruleDescriptor) ::= <%
```
/** Generate the Java type associated with a single or multiple return values. */

ruleLabelType(referencedRule) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
    <returnScopeBaseType()>
  <elseif(referencedRule.hasSingleReturnValue)>
    <referencedRule.singleValueReturnType>
  <else>
    void
  <endif>
%

delegateName(d) ::= <<
  <if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "null". */

initValue(typeName) ::= <<
  <javaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
  <ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<%

/** Define a return struct for a rule if the code needs to access its start/stop tokens, tree stuff, attributes, ... Leave a hole for subgroups to stick in members. */

returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
    public static class <ruleDescriptor:returnStructName()> extends <returnScopeBaseType()> {
      <if(scope)><scope.attributes:{it |public <it.decl>;}; separator="\n"> <endif>
    <@ruleReturnMembers()>
"
};
<endif>
>>
returnScopeBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
%>
parameterScope(scope) ::= <<
<scope.attributes:{it |<it.decl>}; separator=", ">
>>
parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name>
<else>
<if(index)>
<scope>_stack.elementAt(<index>).<attr.name>
<else>
<scope>_stack.peek().<attr.name>
<endif>
<endif>
%>
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name> =<expr>;
<else>
<if(index)>
<scope>_stack.elementAt(<index>).<attr.name> =<expr>;
<else>
<scope>_stack.peek().<attr.name> =<expr>;
<endif>
<endif>
%>
/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"
/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>

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returnAttributeRef(ruleDescriptor, attr) ::= <%
    <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name>
    <else>
    <attr.name>
    <endif>
%>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%
    <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> = <expr>;
    <else>
    <attr.name> = <expr>;
    <endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>!=null?<scope>.getText():null)"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>!=null?<scope>.getType():0)"
tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>!=null?<scope>.getLine():0)"
tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():0)"
tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>!=null?((<castToLabelType({<scope>.start}):-null?):null))"
ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>!=null?((<castToLabelType({<scope>.stop}):-null?):null))"
ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>!=null?((<ASTLabelType>)<scope>.getTree()):null)"
ruleLabelPropertyRef_text(scope, attr) ::= "<%
    <if(TREE_PARSER>)
    (<scope>!=null?(input.getTokenStream().toString(input.getTreeAdaptor().getTokenStartIndex(<scope>.start)), input.getTreeAdaptor().getTokenStopIndex(<scope>.start)):-null))
%>"
<else>
    ((scope)!=null?input.toString(scope.start,scope.stop):null)
<endif>
%>

ruleLabelPropertyRef_st(scope,attr) ::= "((StringTemplate)<scope>.getTemplate())

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType():0"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine():0"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine():-1"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel():0"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex():0"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText():null"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "<scope>.getText():0"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<castToLabelType("retval.start")>)"
rulePropertyRef_stop(scope,attr) ::= "<castToLabelType(" retval.stop")>)"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <%
    <if(TREE_PARSER)>
        input.getTokenStream().toString(
            input.getTreeAdaptor().getTokenStartIndex(retval.start),
            input.getTreeAdaptor().getTokenStopIndex(retval.start))
    <else>
        input.toString(retval.start,input.LT(-1))
    </endif>
%>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope.attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) {
    <action>
  }
  <else>
  <action>
  <endif>
%

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)
bitset(name, words64) ::= <<
  public static final BitSet <name> = new BitSet(new long[]{{words64:{it |<it>L};separator="","}});
>>

codeFileExtension() ::= ".java"

true_value() ::= "true"
false_value() ::= "false"

isEmptyString ::= [
  "" : true,
  default : false
]

isTrue ::= [
  "true" : true,
  default : false
]

isDefaultLabelType ::= [
  "Token" : true,
  default : false
]

isPredefinedRewriteRule ::= [
"topdown": true,
"bottomup": true,
default: false
]

castToLabelType(value) ::= <%
<if(!isDefaultLabelType.(labelType))>
(<labelType>)
<endif>
<value>
%

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/Java.stg
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
/** Match an ST group interface. Just a list of template names with args.
* Here is a sample interface file:
*
*interface nfa;
nfa(states,edges);
*optional state(name);
*/
class InterfaceParser extends Parser;

options {
  k=3;
}

protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
  if ( groupI!=null ) {
    groupI.error("template group interface parse error", e);
  }
  else {
    System.err.println("template group interface parse error: "+e);
    e.printStackTrace(System.err);
  }
}

groupInterface[StringTemplateGroupInterface groupI]
{this.groupI = groupI;}
:"interface" name:ID {groupI.setName(name.getText());} SEMI
  ( template[groupI] )+
;

template[StringTemplateGroupInterface groupI]
{
  LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
  String templateName=null;
}
:(opt:"optional")? name:ID LPAREN (formalArgs=args)? RPAREN SEMI
  {templateName = name.getText();
    groupI.defineTemplate(templateName, formalArgs, opt!=null);
  }
;

args returns [LinkedHashMap args=new LinkedHashMap()]


class InterfaceLexer extends Lexer;

options {
  k=2;
  charVocabulary = \u0000..\uFFFE;
}

ID: ('a'..'z'|'A'..'Z'| '_') ('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_'|')* ;

LPAREN: '(' ;
RPAREN: ')' ;
COMMA: ',' ;
SEMI: ';' ;
COLON: ':' ;

// Single-line comments
SL_COMMENT : "//" (~('
'|''))* (('')? '
')?
  {$setType(Token.SKIP); newline();}

// multiple-line comments
ML_COMMENT : "/*" (
  options {
    greedy=false;
  }
  : (\n')? \n' {newline();}
  | .
  )*
  "*/"
  {$setType(Token.SKIP);}

// Whitespace -- ignored
WS : ( ' ' |
  \t |
  \f |
  (\r)? \n' { newline(); }
) +
header {
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    */
    package org.antlr.stringtemplate.language;
    import org.antlr.stringtemplate.*;
    import java.io.*;
}

/** Break up an input text stream into chunks of either plain text
 * or template actions in "<...>". Treat IF and ENDIF tokens
 * specially.
 */
class AngleBracketTemplateLexer extends Lexer;

options {

}
importVocab=TemplateParser;
k=7; // see "<endif>
charVocabulary = \u0001..\uFFFE;
}
{
protected String currentIndent = null;
protected StringTemplate self;

public AngleBracketTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("<...> chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='e'&&LA(i+4)=='e'&&LA(i+5)=='>';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&LA(i+5)=='f'&&LA(i+6)=='>';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='<'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)=='>';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)=='\r'&&LA(i+1)=='\n')||LA(i)=='\n';
}

LITERAL
:   {LA(1)!='\r'&&LA(1)!='\n'}?
( options { generateAmbigWarnings=false; }
{
    int loopStartIndex=text.length();
    int col=getColumn();
    }
:   '\!' '\<'  // allow escaped delimiter
    | '\!' '\>'
    | '\!' '\W' // always replace \ with \
    | '\W ~("<"">) // otherwise ignore escape char
if ( col==1 && LA(1)=='<' ) {
    // store indent in ASTExpr not in a literal
    currentIndent=ind.getText();
}
text.setLength(loopStartIndex); // reset length to wack text
else currentIndent=null;
}
if ((.getText).length()==0) {$setType(Token.SKIP);}} // pure indent?
;
protected
INDENT
  : ( options {greedy=true;}: ' ' | '	')+
  ;

NEWLINE
  :('
')? 'n' {newline(); currentIndent=null;}
  ;

ACTION
options {
  generateAmbigWarnings=false; // <EXPR> is ambig with <!..!>
}
{
  int startCol = getColumn();
}
  : LINE_BREAK {$setType(Token.SKIP);}
  // Match escapes not in a string like <\u00af>
  StringBuffer buf = new StringBuffer();
  char uc = 'u0000';
  '<'! (uc=ESC_CHAR {buf.append(uc); } )+ '>'!
    {$setText(buf.toString()); $setType(LITERAL);}
  | COMMENT    {$setType(Token.SKIP);}
  |   ( options {
     generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
     }
   : '<'! "if" (' ')# "(" IF_EXPR ")" ">"! {$setType(TemplateParser.IF);}
     ( '\n')? '\n'! [newline();]? // ignore any newline right after an IF
   ['<'! "elseif" (' ')# "(" IF_EXPR ")" ">"! {$setType(TemplateParser.ELSEIF);}
     ( '\n')? '\n'! [newline();]? // ignore any newline right after an IF
   | '<'! "else" ">"!  {$setType(TemplateParser.ELSE);}
     ( '\n')? '\n'! [newline();]? // ignore any newline right after an ELSE
   | '<'! "endif" ">"!  {$setType(TemplateParser.ENDIF);}
     ( [startCol==1]? ('\n')? '\n'! [newline();]?)? // ignore after ENDIF if on line by itself
| // match <@foo> => foo
| // match <@foo>..<@end> => foo:=...
| '<!' '@!' (~('>'|'('))+("("!' '>')! {$setType(TemplateParser.REGION_REF);} | '>'!
| $setType(TemplateParser.REGION_DEF);
| String t=$getText;
| $setText(t+"::=");
|
| ( options {greedy=true;} : (''!)? '
'! {newline();})?

{boolean atLeft = false;}
|
| ( options {greedy=true;} // handle greedy=false with predicate
| :![(upcomingAtEND(1))|(upcomingNewline(1)&&upcomingAtEND(2))]}? \
| (("v")? 'n'! {newline(); atLeft = true;}) |
| [ atLeft = false; ]
|
| )+
| ( ("v")? 'n'! {newline(); atLeft = true; })?
| ("<@end>"! |
| . {self.error("missing region "+t+" <@end> tag");}
| )

| ( atLeft)? ("v")? 'n'! {newline();})?
| )
|
| 
| '<'! EXPR '!'!
|
| { ChunkToken t = new ChunkToken(_ttype, $getText, currentIndent);
| $setToken(t);
| }
|
| protected
| EXPR: ( ESC
| | ("v")? 'n'! {newline();} |
| | SUBTEMPLATE |
| | ("="|'+') TEMPLATE |
| | ("="|'+') SUBTEMPLATE |
| | ("="|'+') ~(""|'<'|') |
| | "<" |
| | )+
| |
| protecting
| TEMPLATE
protected

IF_EXPR:( ESC
 | ('\n')? '\n' {newline();}
 | SUBTEMPLATE
 | NESTED_PARENS
 | (\n)'
 )+;

protected

ESC_CHAR returns [char uc=\u0000']
:\"\n"! {uc = '\n';}
["\r"! {uc = '\r';}
["\t"! {uc = '\t';}
["\ "! {uc = ' '};
["\u"! a:HEX! b:HEX! c:HEX! d:HEX!
{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);}]

// just used to skip stuff (not part of unicode escape stuff)
protected

ESC : 'W' // ('<'|'>'|'\n'|'\r'|'\t'|'\']'|'\'}'|'\n')
;

protected

HEX: [0..9]'A..'F'\n';f'
;

protected

SUBTEMPLATE
 : '{' (SUBTEMPLATE[ESC]-'\n')* '}'
;

protected

NESTED_PARENS
 : '}' (options {greedy=false;}:NESTED_PARENS[ESC-'\n']+) '}'
protected
COMMENT
{
    int startCol = getColumn();
}
    "<!"
$options {greedy=false;}
:('"')? 'n' {newline();}
|
)*
"!>" ( {startCol==1}? ('"')? 'n' {newline();} )?
;

protected
LINE BREAK
    "\n\"" (INDENT)? ('')? '
' {newline();} (INDENT)?
;

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/angle.bracket.template.g
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*/

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

finishedBacktracking(block) ::= <<
<if (!ruleDescriptor.isSynPred)>
<if (backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
<block>
<endif>
<endif>
>>

@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)> 
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
self._adaptor.addChild(root_0, <label>_tree)
})>>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>  
<finishedBacktracking({  
<label>_tree = <createNodeFromToken(...)>  
root_0 = self._ adaptor.becomeRoot(<label>_tree, root_0)  
})>  
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<  
<tokenRefBang(…)>  
<label>elem=label,...)>  
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<  
<tokenRef(…)>  
<label>elem=label,...)>  
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<  
<tokenRefRuleRoot(…)>  
<label>elem=label,...)>  
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list  
// to pass code to the default matchSet; another possible way to alter  
// inherited code. I don’t use the region stuff because I need to pass  
// different chunks depending on the operator. I don’t like making  
// the template name have the operator as the number of templates gets  
// large but this is the most flexible--this is as opposed to having  
// the code generator call matchSet then add root code or ruleroot code  
// plus list label plus … The combinations might require complicated  
// rather than just added on code. Investigate that refactoring when  
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={ <finishedBacktracking({ self._ adaptor.addChild(root_0,  
<createNodeFromToken(...)>)})}, ...}>  
%

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<  
<matchSet(…)>  
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(…)>"
// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions=[]) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(postmatchCode=<{finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}>}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(label, {<label>.tree})>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

// WILDCARD AST
wildcard(token, label, elementIndex, terminalOptions={}) ::= "<super.wildcard(...)>"

wildcardRuleRoot(token, label, elementIndex, terminalOptions={}) ::= "<super.wildcard(...)>"

createNodeFromToken(label, terminalOptions={}) ::= <%
   <if(terminalOptions.node)>
   <terminalOptions.node>(<label>) <! new MethodNode(IDLabel) !>
   <else>
   self._adaptor.createWithPayload(<label>)
   <endif>
   %>

ruleCleanUp() ::= "<super.ruleCleanUp()>

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/** Template subgroup to add template rewrite output
 * If debugging, then you'll also get STDbg.stg loaded.
 */

@outputFile.imports() ::= <<
    <@super.imports()>
    import stringtemplate3
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnInit() ::= <<
    self.st = None
>>

@returnScope.ruleReturnMembers() ::= <<
    def getTemplate(self):
        return self.st
    def toString(self):
        if self.st is not None:
            return self.st.toString()
        return None
    __str__ = toString
>>

@genericParser.init() ::= <<
    <@super.init()>
    self.templateLib = stringtemplate3.StringTemplateGroup(


'\<name>Templates', lexer='angle-bracket'
)

@genericParser.members() ::= <<
  @super.members()
  def setTemplateLib(self, templateLib):
    self.templateLib = templateLib

  def getTemplateLib(self):
    return self.templateLib

>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
  # TEMPLATE REWRITE
  <if(backtracking)>
    if <actions.(actionScope).synpredgate>:
      <first(alts):rewriteTemplateAltFirst()>
      <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
      <if(rewriteMode)><replaceTextInLine()></if>
  <else>
    <first(alts):rewriteTemplateAltFirst()>
    <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
    <if(rewriteMode)><replaceTextInLine()></if>
  <endif>
>>

replaceTextInLine() ::= <<
  <if(TREE_PARSER)>
    self.input.getTokenStream().replace(
      self.input.getTokenStartIndex(retval.start),
      self.input.getTokenStopIndex(retval.start),
      retval.st
    )
  <else>
    self.input.replace(
      retval.start.getTokenIndex(),
      self.input.LT(-1).getTokenIndex(),
      retval.st
    )
  <endif>
>>
```plaintext
乏力 rewriteTemplateAltFirst(alt) ::= <<
    <if(alt.pred)>
    # <alt.description>
    retval.st = <alt.alt>
    <\n>
    <else>
    # <alt.description>
    retval.st = <alt.alt>
    <\n>
    <endif>
>>

rewriteTemplateAlt(alt) ::= <<
    <if(alt.pred)>
    if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
    <\n>
    <else>
    # <alt.description>
    retval.st = <alt.alt>
    <\n>
    <endif>
>>

rewriteEmptyTemplate(alts) ::= <<
    None
>>

/** Invoke a template with a set of attribute name/value pairs.
* Set the value of the rule's template *after* having set
* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name,args) ::= <%
    self.templateLib.getInstanceOf("<name>"<if(args)>, attributes={<args:{a | "<a.name>": <a.value>}; separator=",
    "}>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
    self.templateLib.getInstanceOf(<expr><if(args)>, attributes={<args:{a | "<a.name>": <a.value>}; separator=",
    "}>)
%>
```

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/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
  stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args), attributes={<args:{a |
  "<a.name>": <a.value> }; separator=""," }<endif>)
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
  <action>
>>

/** An action has %st.attrName=expr; or %{st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
  (<st>)["<attrName>"] = <expr>
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
  stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

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*

@outputFile.imports() ::= <<
  @@super.imports()>
  @if(!TREE_PARSER)<! tree parser would already have imported !>
  import org.antlr.runtime.tree.*;<
  @endif>
>>

@genericParser.members() ::= <<
  @super.members()>
  <parserMembers()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
  protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();
  override public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g:delegateName()>.treeAdaptor = this.adaptor;}>
  }
  override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
  }
>>

@returnScope.ruleReturnMembers() ::= <<
  <ASTLabelType> tree;
  public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  var root_0:<ASTLabelType> = null;
>>

ruleLabelDefs() ::= <<
  <super.ruleLabelDefs()>
  <[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
    ruleDescriptor.wildcardTreeListLabels]:{it |var <it.label.text>_tree:<ASTLabelType>==null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
  :{it |var stream_<it>:RewriteRule<rewriteElementType>Stream=new
  RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n"><ruleDescriptor.allRuleRefsInAltsWithRewrites
  :{it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}; separator="\n"></ruleDescriptor.allRuleRefsInAltsWithRewrites>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
root_0 = <ASTLabelType>(adaptor.nil());\n@endf
@endf
@endf
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>; \! Track implies no auto AST construction!>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) \endif>stream_<token>.add(<label>);\n@endf
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids and to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRootTrack(...)
<! TokenRefTrack
<listLabel(elem=label,...)>)
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(label, {<label>.tree})>
>>

// R e w r i t e
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="",">
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 *  list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator="||"> ) {
   <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n}>>
>>

rewriteClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
   <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n}>>
>>

rewritePositiveClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
if (!(<referencedElements:{el | stream_<el>.hasNext}; separator="||">) ) {
    throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
    <alt>
} <referencedElements:{el | stream_<el>.reset();<\n>}> >>
rewriteAlt(a) ::= <<
// <a.description>
@if(a.pred)
if (<a.pred>) {
    <a.alt>
} <\n>
<else>
{
    <a.alt>
} <\n>
<endif>
>>
/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
[root:rewriteElement()]
[child:rewriteElement()]
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);<\n>
} <\n>
>>
rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
@pregen()<e.e>
>>
/** Gen ID or ID[ args ] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>;<\n>
>>
/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());
>>

/** Gen ^(label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>

/** Gen ^(label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>));
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,terminalOptions,args)>);
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(token,terminalOptions,args)>, root_<treeLevel>));
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());
>>
```plaintext
/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen ^( ruleLabel ... ) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>

/** Gen ^( ruleLabel ... ) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>({tokenType}{args}, {args; separator=", "})
<else>
<ASTLabelType>(adaptor.create({tokenType}, {args; separator=", "}{if(!args)}"{tokenType}"{endif}))
<endif>
>>
```
createRewriteNodeFromElement(token, terminalOptions, args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextToken()<if(args)> , <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ActionScript/AST.stg
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 */

/** Build an AST from a single StringTemplate template */
parser grammar STParser;
options {
    language=Java;
    tokenVocab=STLexer;
    TokenLabelType=CommonToken;
    output=AST;
    ASTLabelType=CommonTree;
}

tokens {
    EXPR; OPTIONS; PROP; PROP_IND; INCLUDE; INCLUDE_IND; EXEC_FUNC; INCLUDE_SUPER;
    INCLUDE_SUPER_REGION; INCLUDE_REGION; TO_STR; LIST; MAP; ZIP; SUBTEMPLATE; ARGS;
    ELEMENTS; REGION; NULL; INDENTED_EXPR;
}

@header {
    package org.stringtemplate.v4.compiler;
    import org.stringtemplate.v4.misc.ErrorManager;
    import org.stringtemplate.v4.misc.ErrorType;
}

@members {
    ErrorManager errMgr;
    Token templateToken;
    public STParser(TokenStream input, ErrorManager errMgr, Token templateToken) {
        this(input);
        this.errMgr = errMgr;
        this.templateToken = templateToken;
    }
    @Override
    protected Object recoverFromMismatchedToken(IntStream input, int ttype, BitSet follow)
    throws RecognitionException
    {
        throw new MismatchedTokenException(ttype, input);
    }
    
    templateAndEOF : template EOF -> template? ;

    template : element* ;

    element :
    {input.LT(1).getCharPositionInLine()==0]? INDENT? COMMENT NEWLINE -> // throw away
    [INDENT singleElement -> ^(INDENTED_EXPR INDENT singleElement?) // singleElement is optional to handle
    error returning nil
|singleElement
|compoundElement

\n
singleElement
:exprTag
|TEXT
|NEWLINE
|COMMENT! // throw away

\n
compoundElement
:ifstat
|region

\n
exprTag
:LDELIM expr ( ';' exprOptions )? RDELIM
-> ^(EXPR[$LDELIM,"EXPR"] expr exprOptions?)

\n
region
@init {Token indent=null;}
:=INDENT? x=LDELIM '@' ID RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}

\n
template
INDENT? LDELIM '@end' RDELIM
// kill \n for <@end> on line by itself if multi-line embedded region
({$region.start.getLine()!=input.LT(1).getLine()}?=> NEWLINE)?
-> {indent!=null}?
  ^(INDENTED_EXPR $i ^(REGION[$x] ID template?))
-> ^(REGION[$x] ID template?)

\n
subtemplate
:lc='{ (ids+= ID ( ',' ids+= ID )? )? template INDENT? '}'
// ignore final INDENT before } as it's not part of outer indent
-> ^(SUBTEMPLATE[$lc,"SUBTEMPLATE"] ^(ARGS $ids)* template?)

\n
ifstat
@init {Token indent=null;}
:=INDENT? LDELIM 'if' '(' c1=conditional ')' RDELIM {if (input.LA(1)!=NEWLINE) indent=$i;}
t1=template
 ( INDENT? LDELIM 'elseif' '(' c2+=conditional ')' RDELIM t2+=template )* ( INDENT? LDELIM 'else' RDELIM t3=template )?
INDENT? endif= LDELIM 'endif'
RDELIM
// kill \n for <endif> on line by itself if multi-line IF
conditional
scope {
  boolean inside;
}
: andConditional ( '||' andConditional )*
;
andConditional : notConditional ( '&&' notConditional )* ;

notConditional
: '!'? notConditional
| memberExpr
;

notConditionalExpr
:(ID->ID)
(p='.' prop=ID-> ^PROP[$p,"PROP"] $notConditionalExpr $prop)
| p='.' (' mapExpr ')-> ^PROP_IND[$p,"PROP_IND"] $notConditionalExpr mapExpr)
)*
;

exprOptions : option ( ',' option )* -> ^(OPTIONS option*) ;

option
@init {
  String id = input.LT(1).getText();
  String defVal = Compiler.defaultOptionValues.get(id);
  boolean validOption = Compiler.supportedOptions.get(id)!=null;
}
:ID
{
  if ( !validOption ) {
    errMgr.compileTimeError(ErrorType.NO_SUCH_OPTION, templateToken, $ID, $ID.text);
  }
}
| (='=' exprNoComma -> {validOption}? ^('=' ID exprNoComma)
-> |
  if ( defVal==null ) {
    errMgr.compileTimeError(ErrorType.NO_DEFAULT_VALUE, templateToken, $ID);
  }
}
-> {validOption&&defVal!=null}?
  ^(EQUALS["="] ID STRING[$ID,""+defVal+""])
->
)
;

exprNoComma
:memberExpr
  (: mapTemplateRef-* ^(MAP memberExpr mapTemplateRef)
  | -> memberExpr
)
;

expr : mapExpr;

// more complicated than necessary to avoid backtracking, which ruins
// error handling
mapExpr
:memberExpr
  ((c=',' memberExpr)+ col=':' mapTemplateRef
  -> ^(ZIP[$col] ^(ELEMENTS memberExpr+) mapTemplateRef)
  | -> memberExpr
  )
  ({if ($x!=null) $x.clear();} // don't keep queueing x; new list for each iteration
  col=':' x+=mapTemplateRef ((Scol==null)?=> ',', x+=mapTemplateRef )*
  -> ^(MAP[Scol] $mapExpr $x+)
  )*
;

/**
expr:template(args)  apply template to expr
expr:{arg | ...}     apply subtemplate to expr
expr:(e)(args)       convert e to a string template name and apply to expr
*/
mapTemplateRef
:ID ("args ")-* ^(INCLUDE ID args?)
| subtemplate
|lp=(' mapExpr rp=') (' argExprList? ')-* ^(INCLUDE_IND mapExpr argExprList?)
;

memberExpr
:(includeExpr->includeExpr)
  (p=.' ID-* ^(PROP[$p,"PROP"] $memberExpr ID)
  |lp=(' mapExpr ')-* ^(PROP_IND[$p,"PROP_IND"] $memberExpr mapExpr)
  )*
;

includeExpr
options {k=2;} // prevent full LL(*), which fails, falling back on k=1; need k=2
:{Compiler.funcs.containsKey(input.LT(1).getText())}? // predefined function
ID (' expr? ') -> ^(EXEC_FUNC ID expr?)
['super'. ID (' args ')?] -> ^(INCLUDE_SUPER ID args?)
[ID (' args ')?] -> ^(INCLUDE ID args?)
['@' 'super'. ID (' rp=')?] -> ^(INCLUDE_SUPER_REGION ID)
['@' ID (' rp=')?] -> ^(INCLUDE_REGION ID)
|primary |
|
|primary |
| ID |
| STRING |
| TRUE |
| FALSE |
| subtemplate |
| list |
| [{conditional.size()>0}? => ('! conditional ')! |
| [{conditional.size()==0}? => lp=(' expr ') |
| (' argExprList? ') -> ^(INCLUDE_IND[$lp] expr argExprList?) |
| -> ^(TO_STR[$lp] expr) |
| ) |
| ; |
| argExprList : arg (',' namedArg )* (',' '..')? -> namedArg+ '..'?
| | '..' |
| |
| ; |
| argExpList : arg (',' arg )* -> arg+ ; |
| arg : exprNoComma ; |
| namedArg : ID '=' arg -> ^( '=' ID arg ) ; |
| list:{input.LA(2)==RBRACK}? // hush warning: [] special case |
| lb='[' ']' -> LIST[$lb] |
| [lbs='[' listElement ( ',' listElement )* ']' -> ^(LIST[$lb] listElement*) |
| ; |
| listElement : exprNoComma | -> NULL ; |

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */
parserMembers() ::= <<
  protected DebugTreeAdaptor adaptor =
    new DebugTreeAdaptor(null,new CommonTreeAdaptor());
  public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
  }
  public TreeAdaptor getTreeAdaptor() {
    return adaptor;
  }
>>

parserCtorBody() ::= <<
>>
createListenerAndHandshake() ::= <<
    <super.createListenerAndHandshake()>
>>
ctorForPredefinedListener() ::= <<
>>
@rewriteElement.pregen() ::= ""

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Python by code generator.
 */
group ASTDbg:

astAccessor() ::= <<
def setTreeAdaptor(self, adaptor):
    <if(grammar.grammarIsRoot)>
        self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
    <else>
        self._adaptor = adaptor # delegator sends dbg adaptor
    <endif>
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(self._adaptor)}>  

def getTreeAdaptor(self):
    return self._adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)

createListenerAndHandshake() ::= <<
    proxy = DebugEventSocketProxy(self,
        adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor()<else>self._adaptor<endif>,
        debug=debug_socket, port=port)
    self.setDebugListener(proxy)
    self.adaptor.setDebugListener(proxy)
    self.input.setDebugListener(proxy)
    #self.set<InputStreamType>(Debug<InputStreamType>(self.input, proxy))
    proxy.handshake()
>>

@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"

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/** Templates for building ASTs during tree parsing. *
*  Deal with many combinations. Dimensions are:
*  Auto build or rewrite
*  no label, label, list label  (label/no-label handled together)
*  child, root
*  token, set, rule, wildcard
*  Each combination has its own template except that label/no label
*  is combined into tokenRef, ruleRef, ...
*/

/* addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
  /* ASTTreeParser returnScopeInterface.memVars */
  <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope methodsDecl */
@returnScopeInterface.methodsDecl() ::= <<
  /* ASTTreeParser returnScopeInterface.methodsDecl */
  - (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;
  - (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;
>>

/** the implementation of returnScope methods */
@returnScope.methods() ::= <<
  /* ASTTreeParser returnScope.methods */
  - (<ASTLabelType> *)getTree
    {
      return tree;
    }

  - (void) setTree:(<ASTLabelType> *)aTree
    {
      if (tree != aTree) {

if (tree != nil) [tree release];
if (aTree != nil) [aTree retain];
tree = aTree;
}
}

- (void) dealloc
{
    [self setTree:nil];
    [super dealloc];
}

@synthesize tree;
>>

@returnScopeProperties() ::= <<
@property (retain) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
/* ASTTreeParser ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *_first_0 = nil;
<ASTLabelType> *_last = nil;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
/* ASTTreeParser noRewrite */
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType> *)_first_0;
if ( [treeAdaptor getParent:retval.tree] != nil && [treeAdaptor isNil:[treeAdaptor getParent:retval.tree]] )
    retval.tree = (<ASTLabelType> *)[treeAdaptor getParent:retval.tree];
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
/* ASTTreeParser tree */
_last = (<ASTLabelType> *)[input LT:1];
```objective-c
//===tokenRefBang(token,label,elementIndex,terminalOptions)::=
/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex,terminalOptions)::= <<

//===ASTTreeParser tokenRefBang */
_last = (<ASTLabelType]*)[input LT:1];
<super.tokenRef (...)>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions)::= <<

//===ASTTreeParser tokenRef */
```
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```cpp
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>  
<if(!rewriteMode)>  
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>  
<if(terminalOptions.node)>  
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];  
<else>  
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];  
<endif>  
</if(backtracking)>}<endif>  
</if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==nil ) _first_<treeLevel> = <label>;  
<endif>  
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefAndListLabel */
tokenRef(...)>
<labelList(elem=label,...)>  
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>  
<if(!rewriteMode)>  
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>  
<if(terminalOptions.node)>  
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];  
<else>  
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];  
<endif>  
</if(backtracking)>}<endif>  
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];  
<if(backtracking)>}<endif>  
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefRuleRootAndListLabel */
tokenRefRuleRoot(...)>
<labelList(elem=label,...)>  
>>
```
/** Match . wildcard and auto dup the node/subtree */
wildcard(token, label, elementIndex, terminalOptions) ::= <<
/* ASTTreeParser wildcard */
_last = (<ASTLabelType> *)[input LT:1];
<super.wildcard(...)> 
@if(!rewriteMode)>
@if(backtracking)>>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType> *)[adaptor dupTree:<label>];
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
@if(backtracking)>>}<endif>
</if(backtracking)>
@if(!rewriteMode)>
@if(backtracking)>>if ( <actions.(actionScope).synpredgate> )<endif>
if (_first_<treeLevel> == nil) _first_<treeLevel> = <label>;
@endif>
@endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSet */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(postmatchCode={
@if(!rewriteMode)>
@if(backtracking)>>if ( <actions.(actionScope).synpredgate> ) {<endif>
@if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
</if(terminalOptions.node)> 
</if(backtracking)>}
@if(!rewriteMode)>
@if(backtracking)>>if ( <actions.(actionScope).synpredgate> )<endif>
if (_first_<treeLevel> == nil) _first_<treeLevel> = <label>;
</if(backtracking)>}
</if(backtracking)>
}
@if(!rewriteMode)>
@if(backtracking)>>if ( <actions.(actionScope).synpredgate> )<endif>
if (_first_<treeLevel> == nil) _first_<treeLevel> = <label>;
</if(backtracking)>}
</if(backtracking)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTTreeParser matchRuleBlockSet */
<matchSet(...)> 
<noRewrite(...)> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSetBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(...)> 
>>
matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTTreeParser matchSetRuleRoot */
<super.matchSet(postmatchCode={
<if(!rewriteMode>)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node>)
<label>_tree = [terminalOptions.node> new<terminalOptions.node>:<label>;]);
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif>
root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>}
<endif>
}

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRef */
._last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>;
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode>)
[treeAdaptor addChild:<label>.tree toTree:root_<treeLevel>];
<else> <! rewrite mode !>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefAndListLabel */
<ruleRef(...)>
<! <listLabel(elem = "+label+" getTree][],...)> !>
<listLabel(elem = {[<label> getTree]},...)>;
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRoot */
._last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>;
<if(!rewriteMode>)
<if(backtracking)>if ( state.backtracking == 0 ) <endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>.tree old:root_<treeLevel>];
[stream_token nextNode]
<endif>
>>

ruleCleanUp() ::= <<
/* ASTTreeParser ruleCleanUp */
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <u> <endif>
retval.tree = (<ASTLabelType>*=[treeAdaptor rulePostProcessing:root_0];
<if(backtracking)> } <endif>
<endif>
>>

Found in path(s):
*/opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match a group of template definitions beginning
 * with a group name declaration. Templates are enclosed
 * in double-quotes or «...» quotes for multi-line templates.
 * Template names have arg lists that indicate the cardinality
 * of the attribute: present, optional, zero-or-more, one-or-more.
 * Here is a sample group file:

  group nfa;

  // an NFA has edges and states
  nfa(states,edges) ::= «
    digraph NFA {
      rankdir=LR;
      <states; separator=":\n"> <edges; separator=":\n">}
  »

  state(name) ::= "node [shape = circle]; <name>;"
*/

class GroupParser extends Parser;

options {
  k=3;
}

{ protected StringTemplateGroup group;

  public void reportError(RecognitionException e) {
    if ( group!=null ) {
      group.error("template group parse error", e);
    } else {
      System.err.println("template group parse error: "+e);
      e.printStackTrace(System.err);
    }
  }

  group[StringTemplateGroup g]
  { this.group = g; }
"group" name:ID { g.setName(name.getText()); }  
( COLON s:ID { g.setSuperGroup(s.getText()); } )?  
( "implements" i:ID { g.implementInterface(i.getText()); }  
( COMMA i2:ID { g.implementInterface(i2.getText()); } )* )?  
SEMI  
( template[g] | mapdef[g] )+
;  

template[StringTemplateGroup g]
{
   Map formalArgs = null;
   StringTemplate st = null;
   boolean ignore = false;
   String templateName=null;
   int line = LT(1).getLine();
}

://AT scope:ID DOT region:ID
{
   templateName=g.getMangledRegionName(scope.getText(),region.getText());
   if ( g.isDefinedInThisGroup(templateName) ) {
      g.error("group "+g.getName()+" line "+line+: redefinition of template region: @"+scope.getText()+"."+region.getText());
      st = new StringTemplate(); // create bogus template to fill in
   }
   else {
      boolean err = false;
      // @template.region() ::= "...
      StringTemplate scopeST = g.lookupTemplate(scope.getText());
      if ( scopeST==null ) {
         g.error("group "+g.getName()+" line "+line+: reference to region within undefined template: "+scope.getText());
         err=true;
      }
      if ( !scopeST.containsRegionName(region.getText()) ) {
         g.error("group "+g.getName()+" line "+line+: template "+scope.getText()+" has no region called "+region.getText());
         err=true;
      }
      if ( err ) {
         st = new StringTemplate();
      }
   }
   else {
      st = g.defineRegionTemplate(scope.getText(),
         region.getText(),
         null,
         StringTemplate.REGION_EXPLICIT);
   }
}
<table>
<thead>
<tr>
<th>name:ID {templateName = name.getText();}</th>
</tr>
</thead>
<tbody>
<tr>
<td>if ( g.isDefinedInThisGroup(templateName) ) {</td>
</tr>
<tr>
<td>g.error(&quot;redefinition of template: &quot;+templateName);</td>
</tr>
<tr>
<td>st = new StringTemplate(); // create bogus template to fill in</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>else {</td>
</tr>
<tr>
<td>st = g.defineTemplate(templateName, null);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>{if ( st!=null ) {st.setGroupFileLine(line);}}</td>
</tr>
<tr>
<td>LPAREN</td>
</tr>
<tr>
<td>(args[st]</td>
</tr>
<tr>
<td>RPAREN</td>
</tr>
<tr>
<td>DEFINED_TO_BE</td>
</tr>
<tr>
<td>(t:STRING {st.setTemplate(t.getText());}</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>)</td>
</tr>
<tr>
<td>alias:ID DEFINED_TO_BE target:ID</td>
</tr>
<tr>
<td>{g.defineTemplateAlias(alias.getText(), target.getText());}</td>
</tr>
<tr>
<td>;</td>
</tr>
<tr>
<td>args[StringTemplate st]</td>
</tr>
<tr>
<td>:arg[st] ( COMMA arg[st] )*</td>
</tr>
<tr>
<td>;</td>
</tr>
<tr>
<td>arg[StringTemplate st]</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>StringTemplate defaultValue = null;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>:name:ID</td>
</tr>
<tr>
<td>(ASSIGN s:STRING</td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>defaultValue=new StringTemplate(&quot;$<em>val</em>$&quot;);</td>
</tr>
<tr>
<td>defaultValue.setAttribute(&quot;<em>val</em>&quot;, s.getText());</td>
</tr>
<tr>
<td>defaultValue.defineFormalArgument(&quot;<em>val</em>&quot;);</td>
</tr>
<tr>
<td>defaultValue.setName(&quot;&lt;&quot;+st.getName()+&quot;'s arg &quot;+name.getText()+&quot; default value subtemplate&gt;&quot;);</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>{</td>
</tr>
<tr>
<td>defaultValue=new StringTemplate(st.getGroup(), bs.getText());</td>
</tr>
<tr>
<td>defaultValue.setName(&quot;&lt;&quot;+st.getName()+&quot;'s arg &quot;+name.getText()+&quot; default value subtemplate&gt;&quot;);</td>
</tr>
<tr>
<td>}</td>
</tr>
</tbody>
</table>
suffix returns [int cardinality=FormalArgument.REQUIRED]
   :   OPTIONAL   {cardinality=FormalArgument.OPTIONAL;} 
   |   STAR     {cardinality=FormalArgument.ZERO_OR_MORE;} 
   |   PLUS     {cardinality=FormalArgument.ONE_OR_MORE;} 
   | 
   ;
*/

mapdef[StringTemplateGroup g]
{
Map m=null;
}
:name:ID
   DEFINED_TO_BE m=map
   {
   if ( g.getMap(name.getText())!=null ) {
      g.error("redefinition of map: "+name.getText());
   }
   else if ( g.isDefinedInThisGroup(name.getText()) ) {
      g.error("redefinition of template as map: "+name.getText());
   }
   else {
      g.defineMap(name.getText(), m);
   }
   }

map returns [Map mapping=new HashMap()]
   :   LBRACK mapPairs[mapping] RBRACK
   ;

mapPairs [Map mapping]
   :   keyValuePair[mapping] (COMMA keyValuePair[mapping])* 
   (COMMA defaultValuePair[mapping])?
   [ defaultValuePair[mapping] 
   ;
   
   defaultValuePair[Map mapping]
   {
   StringTemplate v = null;
   }
   :"default" COLON v=keyValue
      {mapping.put(ASTExpr.DEFAULT_MAP_VALUE_NAME, v);}
keyValuePair[Map mapping]
{
StringTemplate v = null;
}
:key:STRING COLON v=keyValue {mapping.put(key.getText(), v);}
;

keyValue returns [StringTemplate value=null]
:s1:BIGSTRING {value = new StringTemplate(group,s1.getText());}
:s2:STRING {value = new StringTemplate(group,s2.getText());}
:k:ID {k.getText().equals("key")}?
{value = ASTExpr.MAP_KEY_VALUE;}
{value = null;}
;

class GroupLexer extends Lexer;

options {
  k=2;
  charVocabulary = '\u0000'..'\uFFFE';
  testLiterals=false;
}

ID
options {
  testLiterals=true;
}
:(a'..'z'|A'..'Z'|_') (a'..'z'|A'..'Z'|0..'9'|_')*
;
STRING
:'''! ('\\!'''| '''~'''| '''~''' )*'''!
;
BIGSTRING
:"<<"!
( options {greedy=true;}(\r'?\n'?\n! [newline();])? // consume 1st \n
  options {greedy=false;} // stop when you see the >>

  :(LA(3)=='>'&LA(4)=='>')? '\r' '\n'! [newline();] // kill last \n
  [LA(2)=='>'&LA(3)=='']>']? '\n'! [newline();] // kill last \n
  [\r]? '\n'! [newline();] // else keep

  [\r]>' // > escape
}*
">>"!
ANONYMOUS_TEMPLATE
{
List args=null;
StringTemplateToken t = null;
}
:'{'
(\options {greedy=false;} // stop when you see the >>
:(\')? \n' {newline();} // else keep
[^\! ^] // \ escape
|)
)*
'}!
;

AT:@'
LPAREN: '(';
RPAREN: ')';
LBRACK: '[';
RBRACK: ']';
COMMA: ',';
DOT: '.';
DEFINED_TO_BE: "::=";
SEMI: ':';
COLON: ':';
STAR: '*';
PLUS: '+';
ASSIGN: '=';
OPTIONAL : '?' ;

// Single-line comments
SL_COMMENT
: "/
 (~\n[^\n])* ((\')? \n')?
 {setType(Token.SKIP); newline();}
;

// multiple-line comments
ML_COMMENT
: "/*/\n (\options {greedy=false;}
 |)
:(\')? \n' {newline();}
| .
)*
"*/

{ $setType(Token.SKIP); }
;

// Whitespace -- ignored
WS : ( ' ' |
    | 't'
    | 'f'
    | ('\r')? '\n' { newline(); } 
)+
{ $setType(Token.SKIP); }
;

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/group.g
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/** Templates for building ASTs during tree parsing. */
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
*   no label, label, list label (label/no-label handled together)
*   child, root
*   token, set, rule, wildcard
*   Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/
group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
  _First[0] := nil;
  _Last := nil;
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
  _First, _Save_Last: array [0..63] of I<ASTLabelType>;
  _Last: I<ASTLabelType>;
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (State.Backtracking = 0) then
begin<endif>
<if(rewriteMode)>
  RetVal.Tree := _First[0] as I<ASTLabelType>;
  if (Adaptor.GetParent(R retval.Tree) \<\< nil) and (Adaptor.IsNil(Adaptor.GetParent(R retval.Tree))) then
    RetVal.Tree := Adaptor.GetParent(R retval.Tree) as I<ASTLabelType>;
<endif>
<if(backtracking)>end;<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
begin
_Save_Last[<treeLevel>] := _Last;
_First[<treeLevel>] := nil;
;if(!rewriteMode)
Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)if (State.Backtracking = 0) then <endif>
<if(root.el.rule)
if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
<else>
if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()> Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()> Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
<endif>
_Last := _Save_Last[<treeLevel>];
end;
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>
end;
<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>;
<endif>
>>
/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
tokenRef(...)
<listLabel(elem=label,...)> >>
/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
/** Match ^{label+=TOKEN ...} auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
    _Last := Input.LT(1) as I<ASTLabelType>;
    <super.matchSet(..., postmatchCode={
        <if(!rewriteMode)>
        <if(backtracking)>if (State.Backtracking = 0) then begin <endif>
            <if(terminalOptions.node)>
            <label>_tree := T<terminalOptions.node>.Create(<label>);
            <else>
            <label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
            <endif><
            Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
            <if(backtracking)>end;<endif>
        </if(!backtracking)>end;<endif>
    });
    <endif>{
    _Last := Input.LT(1) as I<ASTLabelType>;
    <super.matchSet(..., postmatchCode={
        <if(!rewriteMode)>
        <if(backtracking)>if (State.Backtracking = 0) then begin <endif>
            <if(terminalOptions.node)>
            <label>_tree := T<terminalOptions.node>.Create(<label>);
            <else>
            <label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
            <endif><
            Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
            <if(backtracking)>end;<endif>
        </if(!backtracking)>end;<endif>
    });
    <endif>
// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>    
<if>(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
<else> <! rewrite mode !>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree;
<endif>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(!rewriteMode)>
<if>(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] :=
Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>;
<endif>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule, label, elementIndex, args, scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
rulerefRuleRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 *  change nextToken to nextNode.
 */
createRewriteNodeFromElement(token, terminalOptions, scope) ::= <<
  <if(terminalOptions.node)>
  T<terminalOptions.node>.Create((Locals['Stream_' + token] as IRewriteRuleElementStream).NextNode)
  <else>
  (Locals['Stream_' + token] as IRewriteRuleElementStream).NextNode
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
    begin
    <endif>
   RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
    <if(backtracking)>
    end;
    <endif>
  <endif>
>>

Found in path(s):
/* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg
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/*/
/** Templates for building ASTs during tree parsing. 
* 
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
* 
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <if(!ruleDescriptor.isSynPred)>
    <ASTLabelType> _first_0 = default(<ASTLabelType>);
  </if>
>>
/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
    <if(rewriteMode)>
      retval.Tree = (<ASTLabelType>)_first_0;
        retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
    <endif>
    <if(backtracking)>}<endif>
  <endif>
<<

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  {_last = (<ASTLabelType>)input.LT(1);}
  {
    _save_last_<treeLevel> = _last;
  _first_<treeLevel> = default(<ASTLabelType>);
  <if(!rewriteMode)>
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
    <endif>
  _root:element()>
  <if(rewriteMode)>
    <if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
    <if(root.el.rule)>
      if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
    <else>
      if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>;
    <endif>
  <endif>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if (input.LA(1) == TokenTypes.Down) {
      Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
      <children:element()>
      Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
    }
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
;if(!rewriteMode)>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
;if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<else>
<super.tokenRefBang(...)>
<endif>
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
;if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
;if(!rewriteMode)>
;if(backtracking);if (<actions.(actionScope).synpredgate>) {<endif>
;if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif>\n}
adaptor.AddChild(root_<treeLevel>, label:_tree);
;if(backtracking) }<endif>
<else> <! rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.tokenRef(...)
<endif>
>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)
<tokenRef(...)
<listLabelElem(elem=label,...)
<else>
<super.tokenRefAndListLabel(...)
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)
<if(!rewriteMode)
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)
<tokenRefRuleRoot(...)
<listLabelElem(elem=label,...)
<else>
/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.wildcard(...)>
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(postmatchCode={
<if(!rewriteSet)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label>)
<if(terminalOptions.text)>,<terminalOptions.text; format="string">)<endif>;
<else>
<label>_tree = (<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label>)
<if(terminalOptions.text)>,<terminalOptions.text; format="string">)<endif>;
<endif><
>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.matchSet(...)>
<endif>
>>
matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <matchSet(...)>
  <noRewrite(...)><!-- set return tree ! -->
  <else>
  <super.matchRuleBlockSet(...)>
  <endif>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(...)>
  <else>
  <super.matchSetBang(...)>
  <endif>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
  <if(!ruleDescriptor.isSynPred)>
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
  <endif><
  root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
  <if(backtracking)>
  }
  <endif>
  <super.matchSetRuleRoot(...)>
  <endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<

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<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>}
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> !_ rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<endif>
<else>
<super.ruleRef(...)>}
<endif>
>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)}
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)}
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>
/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule, label, elementIndex, args, scope) ::= <<
    _last = (<ASTLabelType>) input.LT(1);
    <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
    <if(!ruleDescriptor.isSynPred)>
        _last = (<ASTLabelType>) input.LT(1);
        <super.ruleRefTrackAndListLabel(...)>
    <else>
        <super.ruleRefTrackAndListLabel(...)>
    <endif>
>>

/** ^(rule ...) rewrite */
ruleRefRootTrack(rule, label, elementIndex, args, scope) ::= <<
    <if(!ruleDescriptor.isSynPred)>
        _last = (<ASTLabelType>) input.LT(1);
        <super.ruleRefRootTrack(...)>
    <else>
        <super.ruleRefRootTrack(...)>
    <endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRootTrackAndListLabel(rule, label, elementIndex, args, scope) ::= <<
    <if(!ruleDescriptor.isSynPred)>
        _last = (<ASTLabelType>) input.LT(1);
        <super.ruleRefRootTrackAndListLabel(...)>
    <else>
        <super.ruleRefRootTrackAndListLabel(...)>
    <endif>
>>

/** Streams for token refs are tree nodes now; override to 
*  change NextToken to NextNode. 
*/
createRewriteNodeFromElement(token, terminalOptions, args) ::= <%
    <if(terminalOptions.node)>
        new <terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
    <else>
        stream_<token>.NextNode()
    <endif>
%>
ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!ruleDescriptor.isSynPred)>
  <if(!rewriteMode)>
  <if(backtracking)>if (actions.(actionScope).synpredgate) {<endif>
    retval.Tree = (ASTLabelType) adaptor.RulePostProcessing(root_0);
  <if(backtracking)>}<endif>
  <endif>
  <endif>
>>

Found in path(s):
  */opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */
parserMembers() ::= <<
  protected DebugTreeAdaptor adaptor;
  public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
    <if(grammar.grammarIsRoot)>
      this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
    <endif>
    <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}> }
  public TreeAdaptor getTreeAdaptor() {
    return adaptor;
  }
>>
parserCtorBody() ::= <<
  <super.parserCtorBody()>
  >>>
createListenerAndHandshake() ::= <<
  DebugEventSocketProxy proxy =
  new DebugEventSocketProxy(this,port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
  setDebugListener(proxy);
  setInputStreamType((new Debug<inputStreamType>)(input,proxy));
  try {
    proxy.handshake();
  } catch (IOException ioe) {
    reportError(ioe);
  }
>>
@ctorForRootGrammar.finally() ::= <<
  TreeAdaptor adap = new CommonTreeAdaptor();
  setTreeAdaptor(adap);
  proxy.setTreeAdaptor(adap);
>>
@ctorForProfilingRootGrammar.finally() ::=<<
  TreeAdaptor adap = new CommonTreeAdaptor();
  setTreeAdaptor(adap);
>>
@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"
@ctorForPredefinedListener.finally() ::=<<
  <if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>
    TreeAdaptor adap = new CommonTreeAdaptor();
  </if(grammar.grammarIsRoot)>
>>
setTreeAdaptor(adap);
@endif
>>

@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"

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*/

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 *  Auto build or rewrite
 *  no label, label, list label (label/no-label handled together)
 *  child, root
 *  token, set, rule, wildcard
 *
 *  The situation is not too bad as rewrite (->) usage makes ^ and !
 *  invalid. There is no huge explosion of combinations.
 */

group ASTParser;

@rule.setErrorReturnValue() ::= <<
RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken,
Input.LT(-1), RE) as I<ASTLabelType>;
>>
// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <super.tokenRef(....)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin<<
  <label>_tree := <createNodeFromToken(....)>;
  Adaptor.AddChild(Root[0], <label>_tree);
  <if(backtracking)>
  end;
  <endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(....)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
  <super.tokenRef(....)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin
  <endif>
  <label>_tree := <createNodeFromToken(....)>;
  Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
  <if(backtracking)>
  end;
  <endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefBang(....)>
  <listLabel(elem=label,....)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(....)>
  <listLabel(elem=label,....)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<

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// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s, label, terminalOptions, elementIndex, postmatchCode) ::= <<
<super.matchSet(..., postmatchCode=<<
<if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>)</if(backtracking)>);])>>
>>

matchRuleBlockSet(s, label, terminalOptions, elementIndex, postmatchCode, treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s, label, elementIndex, postmatchCode) ::= "<super.matchSet(...)"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s, label, terminalOptions, elementIndex, debug) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;
</if(label)>
<super.matchSet(..., postmatchCode=<<
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<createNodeFromToken(...)>, Root[0]) as I<ASTLabelType>;})>>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)">

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0]) as I<ASTLabelType>:
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+.Tree",",...)> 
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+.Tree",",...)> 
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+.Tree",",...)> 
>>

// WILDCARD AST
wildcard(label,elementIndex) ::= <<
<super.wildcard(...)> 
<if(backtracking)> 
if (State.Backtracking = 0) then begin 
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>_tree); 
<if(backtracking)> 
end; 
<endif> 
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)> 
<if(backtracking)> 
if (State.Backtracking = 0) then
begin

<endif>

<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking))
end;
<endif>

>>

createNodeFromToken(label,terminalOptions) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create(<label>) <! new MethodNode(IDLabel) !>
<else>
Adaptor.CreateNode(<label>) as I<ASTLabelType>
<endif>

>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<end>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(!TREE_PARSER)>
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
<endif>
<if(backtracking)>
<
end;
<endif>

>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Delphi/ASTParser.stg
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/** Templates for building ASTs during tree parsing. *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */
/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> _last;<\n>
  <ASTLabelType> _first_0;<\n>
>>

/** Add a variable to track last element matched */
ruleInitializations() ::= <<
  <super.ruleInitializations()>
  _last = NULL;<\n>
  _first_0 = NULL;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build *
 * mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  <if(backtracking)>
  if ( BACKTRACKING ==0 ) {<endif>
  <if(rewriteMode)>
  retval.tree = (<ASTLabelType>)_first_0;
  if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR, 
    ADAPTOR->getParent(ADAPTOR, retval.tree) ) ) 
  { 
    retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
  }<endif>
  <if(backtracking)>}<endif>
  <if(backtracking)>} <endif>
>>

/** match ^(root children) in tree parser; override here to
 *  add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
  _last = (<ASTLabelType>)LT(1);
  {
    <ASTLabelType> _save_last_<treeLevel>;
    <ASTLabelType> _first_<treeLevel>;
    <if(!rewriteMode)>
    <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
    <endif>
    <root:element()>
    <if(rewriteMode)>
    <if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
    <if(root.el.rule)>
    if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
    <else>
    if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>;
    <endif>
    <if(backtracking)>}<endif>
    <endif>
    <actionsAfterRoot:element()>
    <if(nullableChildList)> 
    if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
      MATCHT(ANTLR3_TOKEN_DOWN, NULL);
      <children:element()>
      MATCHT(ANTLR3_TOKEN_UP, NULL);
    }<else>
    <endif>
  }<endif>
  <endif>
  <root:element()>
  <if(rewriteMode)>
  <if(backtracking)>
  <endif>
  <endif>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
  if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
  }<else>
  <endif>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);

MATCHT(ANTLR3_TOKEN_UP, NULL);

<endif>

<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>

_last = _save_last_<treeLevel>;
}

>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add */
* setting of _last */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.tokenRef(...)
  >>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.tokenRef(...)
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = <terminalOptions.node>New(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
  <endif>
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
<else>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
  if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
  <if(backtracking)>}<endif>
<endif>

/>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)>
>>}
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.tokenRef(...)>}
  <if(!rewriteMode)>}
  <if(backtracking)>if ( BACKTRACKING == 0 ) { <endif>
  <if(terminalOptions.node)>}
  <label>._tree = <terminalOptions.node>New(<label>);
  <else>
  <label>._tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
  <endif>
  root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>._tree, root_<treeLevel>);
  <if(backtracking)>} <endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefRuleRoot(...)>}
  <listLabel(elem=label,...)>}
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.wildcard(...)>}
  <if(!rewriteMode)>}
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>
  <label>._tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>._tree);
  <if(backtracking)>} <endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
  >>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>}
  <if(backtracking)>if ( BACKTRACKING == 0 ) { <endif>
  <if(terminalOptions.node)>}
  <label>._tree = <terminalOptions.node>New(<label>);
  <else>
  <label>._tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
  <endif>
  >>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);  
<if(backtracking)>\}
<endif>
<endif>
}

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ){<endif>
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
<if(backtracking)>}
<endif>
<endif>
}, ...
})>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
{}
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
<else>
if (_first_<treeLevel> == NULL ) _first_<treeLevel> = <label>.tree;
<endif>
<if(backtracking)> }
<endif>
/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)> <super.listLabelAST(elem=label,...)> >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1); <super.ruleRef(...)>
(if(!rewriteMode) <if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) <endif>root_.treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_.treeLevel>)); <endif> >>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...) <super.listLabelAST(elem=label,...)> >>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1); <super.ruleRefTrack(...) >>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1); <super.ruleRefTrackAndListLabel(...) >>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1); <super.ruleRefRuleRootTrack(...) >>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1); <super.ruleRefRuleRootTrackAndListLabel(...) >>
/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
  <if(terminalOptions.node)>
    <terminalOptions.node>New(stream_<token>->nextNode(stream_<token>))
  <else>
    stream_<token>->nextNode(stream_<token>)
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp(...)>
  <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {<
      <endif>
      <if(!ruleDescriptor.isSynPred)>
        retval.stop = LT(-1);<
      <endif>
      retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
      <if(backtracking)>
        }
    <endif>
  <ruleDescriptor.allTokenRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
  <ruleDescriptor.allRuleRefsInAltsWithRewrites
    :{if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
>>

Found in path(s):
  */opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
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*/

group gUnitTestResult;

testResult(title, num_of_test, num_of_failure, failure, has_invalid, num_of_invalid, invalid) ::= <<
-----------------------------------------------------------------------
<title> with <num_of_test> tests
-----------------------------------------------------------------------
<num_of_failure> failures found:
<failure:{<it.header>
expected: <it.expectedResult>
actual: <it.actualResult>
}>]
;if(has_invalid)
<num_of_invalid> invalid inputs found:
<invalid:{<it.header>
invalid input: <it.actual>
}>
endif

>>

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/gUnitTestResult.stg
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*/

/** Templates for building ASTs during tree parsing.
 * 
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 *  * no label, label, list label (label/no-label handled together)
 *  * child, root
 *  * token, set, rule, wildcard
 * 
 * Each combination has its own template except that label/no label
 * is combined into tokenRef, ruleRef, ...
 */

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  var _first_0:<ASTLabelType> = null;
  var _last:<ASTLabelType> = null;</n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(rewriteMode)>
  retval.tree = <ASTLabelType>(_first_0);
  if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
  </if(rewriteMode)>

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retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));

<endif>
<if(backtracking)> } <endif>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */

tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
    _last = <ASTLabelType>(input.LT(1));
    {
        var _save_last_<treeLevel>:<ASTLabelType> = _last;
        var _first_<treeLevel>:<ASTLabelType> = null;
        <if(!rewriteMode)>
            var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
        <endif>
        <root:element()>
        <if(rewriteMode)>
            <if(backtracking)> if ( <actions.(actionScope).synpredgate> )<endif>
        <if(root.el.rule)>
            if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = root.el.label.tree;
        </if>
        <else>
            if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = root.el.label;
        </if>
        <endif>
        <actionsAfterRoot:element()>
        <if(nullableChildList)>
            if ( input.LA(1)==TokenConstants.DOWN ) {
                matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
                <children:element()>
                    matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
                }<else>
                    matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
                    <children:element()>
                    matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
                </else>
            <if(!rewriteMode)>
                adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
            </if>
        </endif>
    }<\n>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
* setting of _last
*/
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
@if(!rewriteMode)
@if(backtracking)if ( <actions.(actionScope).synpredgate> ) {<endif>
@if(terminalOptions.node)
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif>
adaptor.addChild(root_<treeLevel>, <label>_tree);
@if(backtracking)>}<endif>
<else> <! rewrite mode !>
@if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)><listLabel(elem=label,...)>}
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
@if(!rewriteMode)
@if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
@if(terminalOptions.node)
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
@if(backtracking)>}<endif>
<endif>
>>
/** Match ^\(label+=TOKEN ...\) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  <super.wildcard(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else> <! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
  <endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <else>
  <label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
  <endif>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <endif>
  }, ...>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
  <matchSet(...)>
  <noRewrite(...)> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.matchSet(...)>

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matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><
>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)>}<endif>
<endif>
}, ...
})
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
 _last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)><
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
 adaptor.addChild(root_<treeLevel>, <label>.tree);
<else> <! rewrite mode !>
 if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)><
<listLabel(label, {<label>.tree})>
>>

/** ^((rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
 _last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)><
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
<ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
<endif>
>>
/** ^(#=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrack(...)>
>>

/** #+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrackAndListLabel(...)> 
>>

/** ^(#=rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRootTrack(...)>
>>

/** #+=rule when output=AST and tracking for rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
  <if(terminalOptions.node)>
    new <terminalOptions.node>(stream_<token>.nextNode())
  <else>
    stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
    <if(backtracking)>
      if ( <actions.(actionScope).synpredgate> ) { <nl> <endif>
      retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
    <if(backtracking)> } <endif>
  <endif>
  <endif>
Found in path(s):
  * /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg

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*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance hierarchy is set up as ASTDbg : AST : Dbg : Python by code generator. */
group ASTDbg:

group ASTDbg:

astAccessor() ::= <<
def setTreeAdaptor(self, adaptor):
  <if(grammar.grammarIsRoot)>
    self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
  <else>
    self._adaptor = adaptor # delegator sends dbg adaptor
  <endif>
  <grammar.directDelegates:{g|<g:delegateName()>.setTreeAdaptor(self._adaptor)}>
def getTreeAdaptor(self):
    return self._adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)

createListenerAndHandshake() ::= <<
proxy = DebugEventSocketProxy(self,
    adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor()<else>self._adaptor<endif>,
    debug=debug_socket, port=port)
self.setDebugListener(proxy)
self.adaptor.setDebugListener(proxy)
self.input.setDebugListener(proxy)
#self.setInputStreamType(Debug(inputStreamType)(self.input, proxy))
proxy.handshake()
>>

@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python3/ASTDbg.stg

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*/

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/OutputTest.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/ReturnTest.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/BooleanTest.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/AbstractTest.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/gUnitTestResult.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/InvalidInputException.java

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*/

/*
New style messages. This file contains the actual layout of the messages emitted by ANTLR. The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

group gnu;

location(file, line, column) ::= "<file>:<line>:"

message(id, text) ::= "<text> (<id>)"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

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*/
/** Templates for building ASTs during tree parsing.
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

group ASTTreeParser;

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  <ASTLabelType> _first_0 = null;
  <ASTLabelType> _last = null;
>.readFileSync

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
  <if(backtracking)>if ( state.backtracking==0 ) {<endif>
  <if(rewriteMode)>
    retval.tree = (<ASTLabelType>)_first_0;
    if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
      retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
  <endif>
  <if(backtracking)>}<endif>
>FileSync

/** match ^(root children) in tree parser; override here to
* add tree construction actions. */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
  _last = (<ASTLabelType>)input.LT(1);
  {
    <ASTLabelType> _save_last_<treeLevel> = _last;
    <ASTLabelType> _first_<treeLevel> = null;
    <if(!rewriteMode)>
      <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
    <endif>
    <root:element()>
    <if(rewriteMode)>
      <if(backtracking)>if ( state.backtracking==0 )<endif>
    <if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}}

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) `cept add * setting of _last */
tokenRefBang(token,label,elementIndex) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
    _last = (<ASTLabelType>)input.LT(1);
    <super.tokenRef(...)>
    <if(!rewriteMode)>
        <if(backtracking)>if ( state.backtracking==0 ) {<endif>
            <if(terminalOptions.node)>
                <label>_tree = new <terminalOptions.node>(<label>);
            </else>
            <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
            </endif>
        </if(backtracking)> }<endif>
    <else> <! rewrite mode !>
        adaptor.addChild(root_<treeLevel>, <label>_tree);
        <if(backtracking)> </if(backtracking>)
    </else>
>>

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<if(backtracking)>if ( state.backtracking==0 )<endif>
if ( _first_.<treeLevel>==null ) _first_.<treeLevel> = <label>;
<endif>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)><listLabel(elem=label,...)>>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)><if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
<if(backtracking)>}<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)><listLabel(elem=label,...)>>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
<if(backtracking)>}<endif>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<endif>
<endif>
matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>  
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode=[
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>  
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>  
<labelLabel(elem=label+.getTree("...")>
>>
/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>
/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>
/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>
Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sourcesjar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg
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*/

/*
* This code generating template and the associated Cpp runtime was produced by:
* Gokulakannan Somasundaram (heavy lifting from C Run-time by Jim Idle)
*/
cTypeInitMap ::= [
  "int"    : "0",              // Integers start out being 0
  "long"   : "0",              // Longs start out being 0
  "float"  : "0.0",           // Floats start out being 0
  "double" : "0.0",           // Doubles start out being 0
  "bool"   : "false",         // Booleans start out being Antlr C for false
  "byte"   : "0",              // Bytes start out being 0
  "short"  : "0",              // Shorts start out being 0
  "char"   : "0"               // Chars start out being 0
]

leadIn(type) ::= <<

/** 
*  This <type> file was generated by $ANTLR version <ANTLRVersion>
*  
*  -  From the grammar source file: <fileName>
*  
*     -  On: <generatedTimestamp>
* </if(LEXER)>
*  
*     -  for the lexer: <name>Lexer
*/

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<endif>
<if(PARSER)>
 *     -                for the parser : <name>Parser
<endif>
<if(TREE_PARSER)>
 *     -           for the tree parser : <name>TreeParser
<endif>
*

* Editing it, at least manually, is not wise.
*
* C++ language generator and runtime by Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim Idle )
* *
* >>

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
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<if(actions.(actionScope).header)>

/* =============================================================================
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.
* =============================================================================
*/
<endif>

/* -----------------------------------------
* Include the ANTLR3 generated header file.
*/
#include "<name>.hpp"
<if(trace)>
#include \<iostream>
</if>
// Include delegator definition header files

<if(recognizer.grammar.delegators)>
#include "<g.recognizerName>.hpp"
<endif>

<actions.(actionScope).postinclude>
/* ----------------------------- */
</docComment>

<if(literals)>

<beginNamespace(actions)>

/** String literals used by <name> that we must do things like MATCHS() with.
 * C will normally just lay down 8 bit characters, and you can use L"xxx" to
 * get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
 * we perform this little trick of defining the literals as arrays of UINT32
 * and passing in the address of these.
 */
<literals:{it | static ANTLR_UCHAR	lit_<i>[]=<it>;}; separator="\n">

<endNamespace(actions)>

<endif>

/* ============================================================================= */
/* =============================================================================*
* Start of recognizer
*/

<recognizer>

/* End of code
 */

 pstmtFileExtension() ::= ".hpp"

beginNamespace(actions) ::= <%
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace> { 
<endif>
<end>
%>
endNamespace(actions) ::= <%
<if(actions.(actionScope).namespace)>
} 
<endif>
%

headerFile( LEXER,
PARSER,
TREE_PARSER,
actionScope,
actions,
docComment,
recognizer,
name,
tokens,
tokenNames,
rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::= 
<<
<leadIn("C++ header")>
<if(PARSER)>
* The parser <mainName()> has the callable functions (rules) shown below,
<endif>
<if(LEXER)>
* The lexer <mainName()> has the callable functions (rules) shown below,
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()> has the callable functions (rules) shown below,
<endif>
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.

* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.

* */

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#ifndef <name>_H
#define _<name>_H

#include "antlr3.hpp"

#include \antlr3.hpp>

/* End of standard antlr 3 runtime definitions */
<actions.(actionScope).includes>

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {gl#include”<g.recognizerName>.hpp”}; separator=”\n”>

<endif>

<actions.(actionScope).header>

#ifdef WIN32
// Disable: Unreferenced parameter, Rules with parameters that are not used
// constant conditional, ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable, tree rewrite variables declared but not needed
// Unreferenced local variable, lexer rule declares but does not always use _type
// potentially uninitialized variable used, retval always returned from a rule
//unreferenced local function has been removed, usually getTokenNames or freeScope, they can go without
warnings
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif
<if(backtracking)>

/* ========================
* BACKTRACKING IS ENABLED
* ========================
*/
<endif>

<beginNamespace(actions)>

<if(recognizer.grammar.delegators)>
// Include delegator definition classes
//
<recognizer.grammar.delegators: {g|class <g.recognizerName>; }; separator=”\n”>
<endif>
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```cpp
<actions.(actionScope).traits>
typedef <name>Traits <name>ImplTraits;

<rules:{r | <if(r.ruleDescriptor.isSynPred)> struct <r.ruleDescriptor.name> {}; <endif> }; separator="\n">

class <name>Tokens
{
public:
/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
 * * Antlr will define EOF, but we can't use that as it is too common in
 * * in C header files and that would be confusing. There is no way to filter this out at the moment
 * * so we just undef it here for now. That isn't the value we get back from C recognizers
 * * anyway. We are looking for ANTLR_TOKEN_EOF.
 */
enum Tokens
{
  EOF_TOKEN = ImplTraits::CommonTokenType::TOKEN_EOF
  <tokens:{it | , <it.name> = <it.type> }; separator="\n">
};

/** Context tracking structure for <mainName()> */
class <name> : public <componentBaseType()>, public <name>Tokens
{
public:
typedef ImplTraits ImplTraits;
typedef ComponentType;
typedef ComponentType::StreamType StreamType;
typedef <componentBaseType()> BaseType;
typedef ImplTraits::RecognizerSharedStateType<StreamType> RecognizerSharedStateType;
typedef StreamType InputType;
<if(recognizer.filterMode)>
static const bool IsFiltered = true;
<else>
static const bool IsFiltered = false;
<endif>

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(it)><endif> }}
<rules:{r | <if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)><endif> }}> private:
<if(recognizer.grammar.delegates)>
<recognizer.grammar.delegates:
  {g|<g.recognizerName>* m_<g:delegateName>();}); separator="\n">```
public:
  <name>(InputType* instream<recognizer.grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>);
  <name>(InputType* instream, RecognizerSharedStateType* state<recognizer.grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>);
  void init(InputType* instream <recognizer.grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>);

  <actions.(actionScope).context>

  <if(LEXER)>
  <if(recognizer.filterMode)>
    void memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart);
    bool alreadyParsedRule(ANTLR_MARKER ruleIndex);
    <filteringNextToken()>
  </endif>
  <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)> m<r.ruleDescriptor.name>( <r.ruleDescriptor.parameterScope:parameterScope()>);<endif>}; separator="\n">
  </rules>
  <! generate rule/method definitions for imported rules so they appear to be defined in this recognizer. !>
// Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor|
  <headerReturnType(ruleDescriptor)>
  <ruleDescriptor.name>({ruleDescriptor.parameterScope:parameterScope()});}; separator="\n">
<endif>

  const char * getGrammarFileName();
  void reset();
  ~<name>();
};

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
<if(!recognizer.grammar.grammarIsRoot)>
extern ANTLR_UINT8* <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/* End of token definitions for <name>
*==============================================================================
*/

<endNamespace(actions)>

#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

grammarType() ::= <%
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
%>

componentType() ::= <<
<if(PARSER)>
<name>ImplTraits::ParserType
<endif>
componentBaseType() ::= <%
<if(PARSER)
<name>ImplTraits::BaseParserType
<endif>
<if(LEXER)
<name>ImplTraits::BaseLexerType
<endif>
<if(TREE_PARSER)
<name>ImplTraits::BaseTreeParserType
<endif>
%>

streamType() ::= <<
<if(PARSER)
<name>ImplTraits::ParserType::StreamType
<endif>
<if(LEXER)
<name>ImplTraits::LexerType::StreamType
<endif>
<if(TREE_PARSER)
<name>ImplTraits::TreeParserType::StreamType
<endif>
>>

mainName() ::= <%
<if(PARSER)
<name>
<endif>
<if(LEXER)
<name>
<endif>
<if(TREE_PARSER)
<name>
<endif>
%>

headerReturnScope(ruleDescriptor) ::= "<returnScope(scope=ruleDescriptor.returnScope)>"

headerReturnType(ruleDescriptor) ::= <%
using namespace antlr3;

bool <name>::alreadyParsedRule(ANTLR_MARKER ruleIndex)
{
    BaseType* base = this;
    if (this->get_backtracking() > 1)
        return base->haveParsedRule(ruleIndex);
    return false;
}

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
*/
void <name>::memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart)
{
    BaseType* base = this;
    if (this->get_backtracking() > 1)
        base->memoize(ruleIndex, ruleParseStart);
}

// Produce the lexer output
//
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    filterMode,
    superClass,
    labelType="ImplTraits::CommonTokenType*") ::= <<
void <name>::reset()
{
    this->get_rec()->reset();
}

/** \brief Name of the grammar file that generated this code */
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code. */
const char* <name>::getGrammarFileName()
{
    return fileName;
}
this->setRuleMemo( new IntTrie(15) );/* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {glm_<g:delegateName()> = new <g.recognizerName>(instream, this->get_lexstate(),
this<grammar.delegators:{g|, <g:delegateName()> }>);}; separator="\n"
<endif>
<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g| m_<g:delegateName()> = <g:delegateName>();}; separator="\n"
<endif>
}

<if(cyclicDFAs)>
/* =========================================================================
* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =========================================================================
* End of DFA tables for the lexer
*/
<endif>

/* =========================================================================
* Functions to match the lexer grammar defined tokens from the input stream
*/

<rules; separator="\n\n">

/* =========================================================================
* Lexer matching rules end.
*/
<if(synpreds)>
/* =========================================================================
* Lexer syntactic predicates
*/
filteringNextToken() ::= <<
<name>ImplTraits::CommonTokenType*
<name>ImplTraits::TokenSourceType::nextToken()
{
LexerType* lexer;
typename LexerType::RecognizerSharedStateType* state;

lexer = this->get_super();
state= lexer->get_lexstate();

/* Get rid of any previous token (token factory takes care of
 any deallocation when this token is finally used up.
*/
state->set_token_present( false );
state->set_error( false ); /* Start out without an exception*/
state->set_failedflag(false);

/* Record the start of the token in our input stream.
*/
state->set_tokenStartCharIndex( lexer->index() );
state->set_tokenStartCharPositionInLine( lexer->getCharPositionInLine() );
state->set_tokenStartLine( lexer->getLine() );
state->set_text(""");

/* Now call the matching rules and see if we can generate a new token
*/
for(;;)
{
if (lexer->LA(1) == ANTLR_CHARSTREAM_EOF)
{
/* Reached the end of the stream, nothing more to do.
*/

}}
>>
CommonTokenType&  teof = m_eofToken;

teof.set_startIndex(lexer->getCharIndex());
teof.set_stopIndex(lexer->getCharIndex());
teof.setLine(lexer->getLine());
return &teof;
}

state->set_token_present(false);
state->set_error(false);  /* Start out without an exception*/

ANTLR_MARKER  m;

m= this->get_istream()->mark();
state->set_backtracking(1); /* No exceptions */
state->set_failedflag(false);

/* Call the generated lexer, see if it can get a new token together. */
lexer->mTokens();
state->set_backtracking(0);

<! mTokens backtracks with synpred at BACKTRACKING==2 and we set the synpredgate to allow actions at level 1. !>

if(state->get_failed())
{
 lexer->rewind(m);
 lexer->consume();  <! advance one char and try again !>
}
else
{
 lexer->emit(); /* Assemble the token and emit it to the stream */
 TokenType& tok = state->get_token();
 return &tok;
}

actionGate() ::= "this->get_backtracking()==0"

filteringActionGate() ::= "this->get_backtracking()==1"

/** How to generate a parser */
genericParser( grammar, name, scopes, tokens, tokenNames, rules, numRules, 
   bitsets, inputStreamType, superClass, 
   labelType, members,rewriteElementType, 
   filterMode, ASTLabelType="ImplTraits::TreeType" ) ::= <<

using namespace antlr3;
<if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
*    error reporting.
*/
ANTLR_UINT8* <name>TokenNames[length(tokenNames)+4] = {
   (ANTLR_UINT8*) "\<invalid>" ,  /* String to print to indicate an invalid token */
   (ANTLR_UINT8*) "\<EOR>" ,
   (ANTLR_UINT8*) "\<DOWN>" ,
   (ANTLR_UINT8*) "\<UP>" ,
   <tokenNames:{it |(ANTLR_UINT8*) <it>}; separator=",\n">
};
<endif>

<@members>

<@end>

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
const char* <name>::getGrammarFileName()
{
   return fileName;
}
/** \brief Create a new <name> parser and return a context for it.
*     \param[in] instream Pointer to an input stream interface.
*     \return Pointer to new parser context upon success.
*/
<name>::<name>( StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
<constructorInitializerType("NULL")>
{
   // See if we can create a new parser with the standard constructor
   // this->init(instream<grammar.delegators:{g, <g:delegateName()>}>);
}
/** 
 * \brief Create a new <name> parser and return a context for it.
 * 
 * \param[in] instream Pointer to an input stream interface.
 * 
 * \return Pointer to new parser context upon success.
 */

<name>::<name>( StreamType* instream, RecognizerSharedStateType* state<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
<constructorInitializerType("state")>
{
    this->init(instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>);
}

void <name>::init(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>}>)
{
    <actions.parser.apifuncs>
    <if(memoize>)
        <if(grammar.grammarIsRoot>)
            /* Create a LIST for recording rule memos. */
            */
            typedef RecognizerSharedStateType::RuleMemoType RuleMemoType;
            this->setRuleMemo( new RuleMemoType(15) );	/* 16 bit depth is enough for 32768 rules! */
        </endif>
    </endif>
    <if(grammar.directDelegates>)
        // Initialize the lexers that we are going to delegate some
        // functions to.
        //
        // <grammar.directDelegates: {g|m_<g:delegateName()> = new <g.recognizerName>(instream, this->get_psrstate(),
        this<grammar.delegators:{g|, <g:delegateName()>}>); separator="n">}
    </if>(grammar.delegators>)
        // Install the pointers back to lexers that will delegate us to perform certain functions
        // for them.
        //
        // <grammar.delegators: [g|m_<g:delegateName()> = <g:delegateName>(); separator="n">}
    </if>(grammar.delegators>)
    /* Install the token table */
    this->get_psrstate()->set_tokenNames( <grammar.composite.rootGrammar.recognizerName>TokenNames );
    <@debugStuff()>}

}

void <name>::reset()
/** Free the parser resources */
<name>::~<name>()
{
    <@cleanup>
    <@end>
    <if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to. NULL the state so we only free it once.
    //
    <grammar.directDelegates:
        [g] m_<g:delegateName()>::set_psrstate( NULL );
        delete m_<g:delegateName>();}; separator="\n">
    <endif>
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
    if(this->getRuleMemo() != NULL)
    {
        delete this->getRuleMemo();
        this->setRuleMemo(NULL);
    }
    <endif>
    <endif>
}

/** Return token names used by this <grammarType()> */
*
* The returned pointer is used as an index into the token names table (using the token
* number as the index).
* *
* \return Pointer to first char * in the table.
*/
static ANTLR_UINT8** getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

/* Declare the bitsets */
*
<bitsets:{it | <bitsetDeclare(bitsetname={FOLLOW_<it.name> in_<it.inName><it.tokenIndex>},
    words64=it.bits, traits={<name>ImplTraits} )}>]


<if(cyclicDFAs)>

/* =========================================================================
* DFA tables for the parser
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =========================================================================
* End of DFA tables for the parser
*/
<endif>

/* =$%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
  // Delegated methods that appear to be a part of this
  // parser
  //
  <grammar.delegatedRules:{ruleDescriptor|typing/>:
  <returnType()> <name>::<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>)
  {
    <if(ruleDescriptor.hasReturnValue)>return <endif>m_<ruleDescriptor.grammar:delegateName()>::
  }
  <grammar.delegatedRules:{p|synpred(predname=p)}>; separator="", ""><<endif>>;
</if>
/* End of parsing rules
* =$%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%*/

/* =$%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
* Syntactic predicates
*/
<synpreds:{p | synpred(predname=p)}>;
/* End of syntactic predicates
* =$%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%*/

>>

constructorInitializerType(rec_state) ::=<<
<if(PARSER)>
  :ImplTraits::BaseParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
<if(TREE_PARSER)>
</if(TREE_PARSER)>

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```
:ImplTraits::BaseTreeParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>

>>

parser(grammar,
name,
scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
ASTLabelType,
superClass="Parser",
labelType="ImplTraits::CommonTokenType*",
members={[<actions.parser.members> ]}
):= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTokenStreamType*", rewriteElementType="Token", filterMode=false, ...>)
<endNamespace(actions)>
>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar,
name,
scopes,
tokens,
tokenNames,
globalAction,
rules,
numRules,
bitsets,
filterMode,
labelType={<ASTLabelType>},
ASTLabelType="ImplTraits::TreeType*",
superClass="TreeParser",
members={[<actions.treeparser.members> ]}
):= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTreeNodeStream*", rewriteElementType="Node", ...)>
<endNamespace(actions)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
```
* nor parameters etc... just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= 
<<
// $ANTLR start <ruleName>
void <name>::m<ruleName>_fragment( <ruleDescriptor.parameterScope:parameterScope()> )
{
<ruleLabelDefs()>  
<ruleLabelInitializations()>  
@if(trace)  
    ANTLR_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n", this->LT(1),failed,this->get_backtracking());
@endif  
    <block>
    ANTLR_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n", this->LT(1),failed,this->get_backtracking());
  </block>
}</if(trace)  
  goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
}
// $ANTLR end <ruleName>
>>
synpred(predname) ::= <<
bool <name>::msynpred( antlr3::ClassForwarder< <predname> > )
{
    ANTLR_MARKER start;
    bool success;

    this->inc_backtracking();
    <@start()>  
    start= this->mark();
    this->m<predname>_fragment(); // can never throw exception  
    success= !( this->get_failedflag() );
    this->rewind(start);
    <@stop()>  
    this->dec_backtracking();
    this->set_failedflag(false);
    return success;
}  
<<

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lexSynpred(predname) ::= <<
  <synpred(predname)>
>>

ruleMemoization(rname) ::= <<
  <if(memoize)>
  if ( (this->get_backtracking()>0) && (this->haveParsedRule(<ruleDescriptor.index>)) )
  {
    <if(!ruleDescriptor.hasMultipleReturnValues)>
    <if(!ruleDescriptor.isSynPred)>
    retval.start = 0;
    </if>
    </if>
    <finalCode(finalBlock=finally)>
    <if(!ruleDescriptor.isSynPred)>
    <scopeClean()>
    </if>
    return <ruleReturnValue>();
  }
  </if>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
  if  (this->hasException())
  {
    goto rule<ruleDescriptor.name>Ex;
  }
  <if(backtracking)>
  if (this->hasFailed())
  {
    <scopeClean()>
    <@debugClean()>
    return <ruleReturnValue>();
  }
  </if>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>
  if (this->get_backtracking()>0)
  {
    this->set_failedflag( true );
    <scopeClean()>
    return <ruleReturnValue>();
  }
/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**
* $ANTLR start <ruleName>
*/
<returnType()>
<name>::<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
  <if(trace)>ANTLR_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", this->LT(1), this->get_backtracking());<endif>
  <ruleDeclarations()>
  <ruleDescriptor.actions.declarations>
  <ruleLabelDefs()>
  <ruleInitializations()>
  <ruleDescriptor.actions.init>
  <ruleMemoization(rname=ruleName)>
  <ruleLabelInitializations()>

  <if(actions.(actionScope).rulecatch)>
  try {
  <else>
  <if(exceptions)>
  try {
  <endif>
  <endif>
  <if(!emptyRule)>
  if (this->hasException())
  {
    this->preporterror();
    this->precover();
    <setErrorReturnValue()>
  }<endif>
  <@preamble()>
  {
  <block>
  }<ruleCleanUp()>
  <if(exceptions)>
  <ruleDescriptor.actions.after):execAfter()>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)<\n}>}
  <else>
  <if(!emptyRule)>
  if (this->hasException())
  {
  this->preporterror();
  this->precover();
  <setErrorReturnValue()>
  </endif>
  }<ruleCleanUp()>
}
if (ruleDescriptor.actions.after)
else {
  (ruleDescriptor.actions.after):execAfter()
}

if (actions.(actionScope).rulecatch)
  actions.(actionScope).rulecatch
endif

if (trace) ANTLR_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", this->LT(1), failed, this->get_backtracking()); endif

memoize()

if (finally)
  finalCode(finalBlock=finally)
endif

scopeClean()

@postamble()

return <ruleReturnValue()>

/* ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
  
  
>>
catch(decl,action) ::= <<
  /* catch(decl,action)
   */
  )catch (<e.decl>) {
    <e.action>
  }
>>

ruleDeclarations() ::= <<
  <if (ruleDescriptor.hasMultipleReturnValues)>
  <returnType()> retval(this);
  <else>
  <if (PARSER)>
    <name> ImplTraits::RuleReturnValueType _antlr_rule_exit(this);
  </if>
  </else>
>>
ANTLR_MARKER <ruleDescriptor.name>_StartIndex;

ruleInitializations() ::= <<
/* Initialize rule variables */
<if(ruleDescriptor.returnScope)
<if(ruleDescriptor.hasMultipleReturnValues)
<ruleDescriptor.returnScope.attributes:{ a | <if(a.initValue)>retval.<a.name> = <a.initValue>;<endif> }
<else>
<ruleDescriptor.returnScope.attributes:{ a | <if(a.initValue)><a.name> = <a.initValue>;<endif> }
<endif>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex = this->index();\n<endif>
<ruleDescriptor.useScopes:{it | m_<it>_stack.push(<it>Scope()); }; separator="\n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.push(<it.name>Scope()); }; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels, ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
:[it |<labelType> <it.label.text> = NULL;]; separator="\n"
>
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
:[it |ImplTraits::TokenPtrsListType list_<it.label.text>;]; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
>>

ruleLabelInitializations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)
<if(!ruleDescriptor.isSynPred)
retval.call_start_placeholder();
<endif>
<endif>
>>
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels>
 :{it |<labelType> <it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |ANTLR_UINT32 <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
 :{it | ImplTraits::IntTrieType<CommonTokenType>* list_<it.label.text>;}; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
 :{it |list_<it.label.text> = new ImplTraits::IntTrieType<CommonTokenType>(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
 :{it |<it.label.text> = NULL;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels>
 :{it | delete list_<it.label.text>;}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this->get_backtracking() > 0 ) { this->memoize(<ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

ruleCleanUp() := <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.call_stop_placeholder();
<endif>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes:{it | m_<it>_stack.pop(); }; separator="\n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.pop(); }; separator="\n">
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules, which do not produce tokens.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
//   Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
* 
* $ANTLR start <ruleName>
* 
* Looks to match the characters the constitute the token <ruleName>
* from the attached input stream.
* 
* 
* \remark
* - lexer->error == true if an exception was thrown.
* / 
void <name>::m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
    ANTLR_UINT32_type;
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
/** How to generate code for the implicitly-defined lexer grammar rule
 *  that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
void <name>::mTokens()
{
goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
{
    int alt<decisionNumber>=<maxAlt>;
    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    <@prebranch()>
    switch (alt<decisionNumber>)
    {
        <alts:{a | <altSwitchCase(i,a)>}>
    }
    <@postbranch()>
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
{
    // <fileName>:<description>

    ANTLR_UINT32 alt<decisionNumber>;

    alt<decisionNumber>=<maxAlt>;

    <decls>
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
        <alts:{a | <altSwitchCase(i,a)>}>
    }
}
>>
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
@prealt() 
<alts>
@postalt() 
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
@prealt() 
<alts>
@postalt() 
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
{
  int cnt<decisionNumber>=0;
  <decls>
  @preloop()

  for (;;) {
    int alt<decisionNumber>=<maxAlt>; 
    @predecision()
    <decision>
    @postdecision()
  switch (alt<decisionNumber>)
  {
    <alts:{a | <altSwitchCase(i,a)>}>
    default:
      if ( cnt<decisionNumber> >= 1 )
      {
        goto loop<decisionNumber>;
      }
      <ruleBacktrackFailure()>
      <earlyExitEx()>
      @earlyExitException()
      goto rule<ruleDescriptor.name>Ex;
    }
    cnt<decisionNumber>++;
  }
loop<decisionNumber>: ;/* Jump to here if this rule does not match */
   <@postloop()>
} >>

earlyExitEx() ::= <<
   /* mismatchedSetEx() */
   new ANTLR_Exception< ImplTraits, EARLY_EXIT_EXCEPTION, StreamType>( this->get_rec(), "" );
   <un>
   >>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
   // <fileName>::<description>
   <decls>

   <@preloop()>
   for (;;) {
      int alt<decisionNumber>=<maxAlt>;
      <@predecision()>
      <decision>
      <@postdecision()>
      switch (alt<decisionNumber>)
      {
         <alts:{a | <altSwitchCase(i,a)>}>
         default:
            goto loop<decisionNumber>;/* break out of the loop */
            break;
      }
   }
loop<decisionNumber>: ;/* Jump out to here if this rule does not match */
   <@postloop()>
} >>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation */
onoptionalBlock ::= block

optionalBlockSingleAlt ::= block
/** A case in a switch that jumps to an alternative given the alternative * number. A DFA predicts the alternative and then a simple switch * does the jump to the code that actually matches that alternative. */

    altSwitchCase(altNum,alt) ::= <<
    case <altNum>:
        <@prealt()>
        <alt>
        break;
    >>

/** An alternative is just a list of elements; at outermost level */

alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    // <fileName>:<description>
    {
        <@declarations()>
        <@initializations()>
        <elements:element()>
        <rew>
        <@cleanup()>
    }
>>

// ELEMENTS
/** What to emit when there is no rewrite. For auto build *
* mode, does nothing. */

noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */

element(e) ::= <<
    <@prematch()>
    <e.el><

/** match a token optionally with a label in front */

tokenRef(token,label,elementIndex,terminalOptions) ::= <<
    <if(label)><label> = <endif> this->matchToken(<token>, &FOLLOW_<token>_in_<ruleName><elementIndex>);
    <checkRuleBacktrackFailure()>
>>

/** ids+=ID */

tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
    <tokenRef(...>)
    <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
```cpp
list_<label_>.push_back(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = this->LA(1);<
<endif>
this->matchc(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = this->LA(1);<
<endif>
this->matchRange(<a>, <b>);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(Lexer)
<label>= this->LA(1);<
<else>
<label>=(<labelType>) this->LT(1);<
<endif>
<endif>
if ( <s> )
{
    this->consume();
    <postmatchCode>
    <if(Lexer)>
        this->set_perror_rewww(true);
    <endif>
    <if(backtracking) this->set_failedflag(false); <
    <endif>
}
else
{
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
    <if(Lexer)>
        this->recover();
    <else>
```
mismatchedSetEx() ::= <<
new ANTLR_Exception< <name>ImplTraits, MISMATCHED_SET_EXCEPTION, StreamType>( this->get_rec(), "" );
<if(PARSER)>
this->get_exception()->set_expectingSet(NULL);
<! use following code to make it recover inline;
this->get_exception()->set_expectingSet( &FOLLOW_set_in_<ruleName><elementIndex> );
!>
<endif>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)> 
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
ANTLR_MARKER <label>Start = this->getCharIndex();
ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->CharPositionInLine();
this->matches(<string>);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType;
<label->set_type( CommonTokenType::TOKEN_INVALID );
<label->set_startIndex( <label>Start);
<label->set_stopIndex( this->getCharIndex()-1);
<label->set_input( this->get_input() );
<label->set_line( <label>StartLine<elementIndex> );
<label->set_charPositionInLine( <label>StartCharPos<elementIndex> );
<else>
this->matches(<string>);
<checkRuleBacktrackFailure()>
\n
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
  <if(label)>
  <label> = this->LA(1);<
  <endif>
  this->matchAny();
  <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
  <wildcardChar(...)>
  <listLabel(elem=label,...)>}
>>

/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
ANTLR_MARKER <label>Start<elementIndex> = this->getCharIndex();
ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->getCharPositionInLine();
<if(scope)>m_<scope:delegateName()>-><endif>m<rule.name>(<if(scope)>m_<scope:delegateName()><endif>
<if(args)>, <endif><args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType();
<label>->set_type( CommonTokenType::TOKEN_INVALID);
<label>->set_startIndex( <label>Start<elementIndex> );
<label>->set_stopIndex( this->getCharIndex()-1 );
<label>->set_input( this->get_input() );
<label>->set_line( <label>StartLine<elementIndex> );
<label>->set_charPositionInLine( <label>StartCharPos<elementIndex> );
}
<else>
<if(scope)>m_<scope:delegateName()>-><endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
ANTLR_UINT32 <label>Start<elementIndex>;
ANTLR_UINT32 <label>StartLine<elementIndex> = this->getLine();
ANTLR_UINT32 <label>StartCharPos<elementIndex> = this->getCharPositionInLine();
<labelType> <label>;
<label>Start<elementIndex> = this->getCharIndex();
this->matchc(ANTLR_CHARSTREAM_EOF);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType();
<label>->set_type( CommonTokenType::TOKEN_EOF );
<label>->set_startIndex(<label>Start<elementIndex>);
<label>->set_stopIndex(this->getCharIndex()-1);

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<label>->set_input( this->get_input() );
<label>->set_line( <label>StartLine<elementIndex> );
<label>->set_charPositionInLine( <label>StartCharPos<elementIndex> );
}
<label>
this->matchc(ANTLR_CHARSTREAM_EOF);
<checkRuleBacktrackFailure()>
<endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "int <recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
   <root:element()>
   <actionsAfterRoot:element()>
   <if(nullableChildList)>
      if ( this->LA(1)== CommonTokenType::TOKEN_DOWN ) {
         this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
         <checkRuleBacktrackFailure()>
         <children:element()>
            this->matchToken(CommonTokenType::TOKEN_UP, NULL);
            <checkRuleBacktrackFailure()>
      }
   <else>
      this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
      <checkRuleBacktrackFailure()>
      <children:element()>
      this->matchToken(CommonTokenType::TOKEN_UP, NULL);
      <checkRuleBacktrackFailure()>
   </endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
   if ( !(<evalPredicate(...)>) )
   {
      <ruleBacktrackFailure()>
      <newFPE(...)>
   }
>>
newFPE() ::= <<
ExceptionBaseType* ex = new ANTLR_Exception< <name>ImplTraits, FAILED_PREDICATE_EXCEPTION,
StreamType>( this->get_rec(), "<description>" );
ex->set_ruleName( "<ruleName>" );
<<
// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
    <edges; separator="\nelse ">
    else
    {
        <if(eotPredictsAlt)>
            alt<decisionNumber>=<eotPredictsAlt>;
        <else>
            <ruleBacktrackFailure()>
            <newNVException()>
            goto rule<ruleDescriptor.name>Ex;
            <endif>
        }
    }
    >>

newNVException() ::= <<
ExceptionBaseType* ex = new ANTLR_Exception< <name>ImplTraits, NO_VIABLE_ALT_EXCEPTION,
StreamType>( this->get_rec(), "<description>" );
ex->set_decisionNum( <decisionNumber> );
ex->set_state( <stateNumber> );
<<@noViableAltException()>
<<
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
    <edges; separator="\nelse "]
/** A DFA state that is actually the loopback decision of a closure loop. If end-of-token (EOT) predicts any of the targets then it should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule anything other than 'a' predicts exiting.
*/

dfaLoopbackStateDecls()::= <<
ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;
>>

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
/* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) */
int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
<edges; separator="\nelse">\n<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{alt<decisionNumber>=<eotPredictsAlt>;
 }<\n>
<endif>
<endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
  <targetState>
}
>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator * decides if this is possible: CodeGenerator.canGenerateSwitch(). */
dfaStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( this->LA(<k>) )
{
  <edges; separator="\n"> 

  default:
  <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
  <else>
    <ruleBacktrackFailure()>
    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;<\n>
  <endif>
  }<\n>
}>
>>
dfaOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( this->LA(<k>) )
{
  <edges; separator="\n"> 

}>
>>
dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch ( this->LA(<k>) )
{
  <edges; separator="\n"><\n>
  <if(eotPredictsAlt)>
  default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
  <endif>
  }<\n>
}>
>>
dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator="\n"> 

  <targetState>

  break;
}>

// Cyclic DFA
/** The code to initiate execution of a cyclic DFA; this is used 
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(this, this->get_rec(), this->get_istream(),
cdfa<decisionNumber>);
<checkRuleBacktrackFailure()>
>>

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
* which are then used to statically initialize the dfa structure, which means that there
* is no runtime initialization whatsoever, other than anything the C compiler might
* need to generate. In general the C compiler will lay out memory such that there is no
* runtime code required.
*/
cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
*    <dfa.description>
*/
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberOfStates>] =
    {
    <dfa.eot; wrap="\n", separator="", null="-1">
    };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberOfStates>] =
    {
    <dfa.eof; wrap="\n", separator="", null="-1">
    };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberOfStates>] =
    {
    <dfa.min; wrap="\n", separator="", null="-1">
    };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberOfStates>] =
    {
    <dfa.max; wrap="\n", separator="", null="-1">
    };
static const ANTLR_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberOfStates>] =
    {
    <dfa.accept; wrap="\n", separator="", null="-1">
    };
static const ANTLR_INT32* dfa<dfa.decisionNumber>_T_empty = NULL;

}
static const ANTLR_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{
<table; separator="", wrap="\n", null="-1">\n};<\n>}; null = ""

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
    <dfa.transitionEdgeTables:{xref|dfa<dfa.decisionNumber>_T<xref>}; separator="", wrap="\n", null="NULL">}

/*@errorMethod()>

/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
*/
class <name>CyclicDFA<dfa.decisionNumber> : public CyclicDFA\< <name>ImplTraits, <name> >, public
<name>Tokens
{
    public:
typedef CyclicDFA\< <name>ImplTraits, <name> > BaseType;
typedef BaseType::ContextType CtxType;

    private:
    <if(dfa.specialStateSTs)>
    //to maintain C-Target compatibility, we need to make some of ctx functions look like member funcs
    CtxType*m_ctx;
    <endif>

    public:
    <name>CyclicDFA<dfa.decisionNumber>( ANTLR_INT32 decisionNumber
        , const ANTLR_UCHAR*description
        , const ANTLR_INT32* const eot
        , const ANTLR_INT32* const eof
        , const ANTLR_INT32* const min
        , const ANTLR_INT32* const max
        , const ANTLR_INT32* const accept
        , const ANTLR_INT32* const special
        , const ANTLR_INT32* const transition)
        :BaseType( decisionNumber, description, eot, eof, min, max, accept, special, transition )
    {
    <if(dfa.specialStateSTs)>
    m_ctx = NULL;
    <endif>
    }
ANTLR_UINT32 LA(ANTLR_INT32 i)
{
    return m_ctx->LA(i);
}

ANTLR_UINT32 LT(ANTLR_INT32 k)
{
    return m_ctx->LT(k);
}

template<typename PredType>
bool msynpred(PredType pred)
{
    return m_ctx->msynpred(pred);
}

ANTLR_INT32 specialStateTransition(CtxType * ctx,RecognizerType* recognizer, IntStreamType* is,ANTLR_INT32 s)
{
    ANTLR_INT32 _s;

    m_ctx = ctx;
    _s = s;
    switch (s)
    {
    <dfa.specialStateSTs:{state | case <i0>:
    separator="\n">;
    }
    <state>];
    <if(backtracking)>;
    </if(backtracking>)
    if (ctx->get_backtracking() > 0)
    {
        ctx->set_failedflag(true);
        return -1;
    }
    <endif>
    ExceptionBaseType* ex = new ANTLR_Exception<ImplTraits, NO_VIABLE_ALT_EXCEPTION,StreamType>(recognizer,"<dfa.description>");
    ex->set_decisionNum(<dfa.decisionNumber>);
    ex->set_state(_s);
    <@noViableAltException()>
    return -1;
static <name>CyclicDFA<dfa.decisionNumber> cdfa<dfa.decisionNumber>(
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const ANTLR_UCHAR*)"<dfa.description>",
    dfa<dfa.decisionNumber>._eot, /* EOT table */
    dfa<dfa.decisionNumber>._eof, /* EOF table */
    dfa<dfa.decisionNumber>._min, /* Minimum tokens for each state */
    dfa<dfa.decisionNumber>._max, /* Maximum tokens for each state */
    dfa<dfa.decisionNumber>._accept,/* Accept table */
    dfa<dfa.decisionNumber>._special,/* Special transition states */
    dfa<dfa.decisionNumber>._transitions/* Table of transition tables */
));

/* End of Cyclic DFA <dfa.decisionNumber>*/
*/ ---------------------
*/
/** A state in a cyclic DFA; it's a special state and part of a big switch on * state. */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;<
ANTLR_MARKER index<decisionNumber>_<stateNumber>;<
LA<decisionNumber>_<stateNumber> = ctx->LA(1);<\n}while(!semPredState) get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = ctx->index();<\n>ctx->rewindLast();<\n>s = -1;
<edges; separator="else ">
<if(!semPredState) ! return input cursor to state before we rewound !>
ctx->seek(index<decisionNumber>_<stateNumber>);<\n><endif>
if ( s>0 )
{
    return s;
}
break;
/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (labelExpr) <if(predicates)&& (predicates)<endif> )
{
    s = targetStateNumber;
}
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = targetStateNumber;<<
>>

// DFA EXPRESSIONS
andPredicates(left,right) ::= "((left) && (right))"

orPredicates(operands) ::= "((operands: {o|(o)}; separator="||")")"

notPredicate(pred) ::= "!(evalPredicate(pred,{}) )"

evalPredicate(pred,description) ::= "(pred)"
evalSynPredicate(pred,description) ::= "this->msynpred(antlr3::ClassForwarder<<pred>>())"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere.  Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "this->LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
    ((LA<decisionNumber>_<stateNumber> >= <lower>) && (LA<decisionNumber>_<stateNumber> <= <upper>))
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((this->LA(<k>) >= <lower>) && (this->LA(<k>) <= <upper>))"

setTest(ranges) ::= "<ranges; separator=" || "]"
// ATTRIBUTES

makeScopeSet() ::= <<
/* makeScopeSet()
*/
/** Definition of the <scope.name> scope variable tracking
 * structure. An instance of this structure is created by calling
 * <name>_.<scope.name>Push().
 */
struct <scopeStruct(sname=scope.name,...)>
{
  /* ===================================================================
   * Programmer defined variables...
   */
  <scope.attributes:{it |<it.decl>;}; separator="\n">
  /* End of programmer defined variables
   */
  /* ===================================================================
   */
};
>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDef(scope)
*/
STACKTYPE<< <scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name)>;
<endif>
ruleAttributeScopeDef(scope) ::= <<
  /* ruleAttributeScopeDef(scope) */
  StackType< <scopeStruct(sname=scope.name)> >  <scopeStack(sname=scope.name,...)>;

scopeStruct(sname) ::= <<
  <sname>Scope
>>

scopeStack(sname) ::= <<
  m_<sname>_stack
>>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= <%
  <if(!ruleDescriptor.isSynPred)>
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor.grammar.recognizerName>::<ruleDescriptor:returnStructName()>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
  <else>
  bool
  <endif>
  %>

/** Generate the C type associated with a single or multiple return value(s).
 */
ruleLabelType(referencedRule) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
  <referencedRule.name>_return
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
  <else>
  bool
  <endif>
  %>

/ */
delegateName(d) ::= <<
  <if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 *  must be an object, default value is "0".
 */
initValue(typeName) ::= <<
  = <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
  <ruleLabelType(referencedRule=label.referencedRule)><label.label.text>;
>>

/** Rule label default value */
ruleLabelInitVal(label) ::= <<

ASTLabelType() ::= "<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>ImplTraits::TreeType*<endif>

/** Define a return struct for a rule if the code needs to access its
 *  start/stop tokens, tree stuff, attributes, ... Leave a hole for
 *  subgroups to stick in members.
 */
returnScope(scope) ::= <<
  <if(!ruleDescriptor.isSynPred)>
    <if(ruleDescriptor.hasMultipleReturnValues)>
      <if(!TREE_PARSER)>
        struct <ruleDescriptor:returnStructName()> : public <name>ImplTraits::RuleReturnValueType
        {
          public:
            typedef <name>ImplTraits::RuleReturnValueType BaseType;
            <ruleDescriptor:returnStructName>()()
              : BaseType() 
              <if(scope)>, <scope.attributes:{it | <it.name>() }; separator="","> <endif>
              { init(); } 
            <ruleDescriptor:returnStructName()>( BaseParserType* parser )
              : BaseType(parser) 
              <if(scope)>, <scope.attributes:{it | <it.name>() }; separator="","> <endif>
              { init(); } 
            <ruleDescriptor:returnStructName>()( const <ruleDescriptor:returnStructName()>& other )
              : BaseType(other) 
        } 
      </if>
    </if>
  </if>
</if>
<if(scope)>, <scope.attributes:{it | <it.name>(other.<it.name>) } }; separator=" "> </endif>
{ copy(other); }
~<ruleDescriptor:returnStructName()>()
{
  <@ruleReturnMembersDelete>()
}

<ruleDescriptor:returnStructName()>\&
operator=( const <ruleDescriptor:returnStructName()>\& other )
{
  BaseType::operator=( other );
  <if(scope)><scope.attributes:{it | <it.name> = other.<it.name>; } }; separator="\n"> </endif>
  copy(other);
  return *this;
  <@ruleReturnMembers()>}
  void init() { <@ruleReturnMembersInit()> }
  void copy( const <ruleDescriptor:returnStructName()>\& other) { <@ruleReturnMembersCopy()> }
</else>
struct <ruleDescriptor:returnStructName()>{
  public:
    <name>ImplTraits::recognizer.ASTLabelType start;
    <name>ImplTraits::recognizer.ASTLabelType stop;
    <ruleDescriptor:returnStructName>()( const <ruleDescriptor:returnStructName()>\& other )
    <if(scope.attributes)>
      <scope.attributes:{it | <it.name>(other.<it.name>) } }; separator="\n"> </endif>
    { start = other.start;
      stop = other.stop;
    }

    <ruleDescriptor:returnStructName()>\&
operator=( const <ruleDescriptor:returnStructName()>\& other )
{
  start = other.start;
  stop = other.stop;

  <scope.attributes:{it | <it.name> = other.<it.name>; } }; separator="\n">
  return *this;
  <@ruleReturnMembers()>}
  <if(scope)><scope.attributes:{it |<it.type> <it.name>}; separator="\n"> </endif>
};
<endif>
parameterScope(scope) ::= <<
  <scope.attributes:{it |<it.decl>}; separator="",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>;"

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly *
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
  <if(negIndex)>
    m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name>
  <else>
    <if(index)>
      m_<scope>_stack.at(<index>).<attr.name>
    <else>
      m_<scope>_stack.peek().<attr.name>
    <endif>
  <endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
  <if(negIndex)>
    m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name> = <expr>;
  <else>
    <if(index)>
      m_<scope>_stack.at(<index>).<attr.name> = <expr>;
    <else>
      m_<scope>_stack.peek().<attr.name> =<expr>;
    <endif>
  <endif>
%>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}? *
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
    <scope>.<attr.name>
  <else>
    <scope>
  <endif>
>>
returnAttributeRef(ruleDescriptor, attr) ::= <<
  retval.<attr.name>
  <else>
  <attr.name>
  <endif>
>>

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <<
  retval.<attr.name>=<expr>;
  <else>
  <attr.name>=<expr>;
  <endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

// tokenLabelPropertyRef_text(scope, attr) ::= "(<scope>::getText())"
tokenLabelPropertyRef_type(scope, attr) ::= "(<scope>::getType())"
tokenLabelPropertyRef_line(scope, attr) ::= "(<scope>::getLine())"
tokenLabelPropertyRef_pos(scope, attr) ::= "(<scope>::charPositionInLine())"
tokenLabelPropertyRef_channel(scope, attr) ::= "(<scope>::getChannel())"
tokenLabelPropertyRef_index(scope, attr) ::= "(<scope>::getTokenIndex())"
tokenLabelPropertyRef_tree(scope, attr) ::= "(<scope>::getTree())"
tokenLabelPropertyRef_int(scope, attr) ::= "(<name>ImplTraits::ConvertToInt32(<scope>::getText()))"

ruleLabelPropertyRef_start(scope, attr) ::= "(<scope>::start)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(<scope>::stop)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(<scope>::tree)"
ruleLabelPropertyRef_text(scope, attr) ::= <<
  <if(TREE_PARSER)>
    (this->getStrstream())->toStringSS(<scope>::start, <scope>::start))
  <else>
    (this->getStrstream())->toStringTT(<scope>::start, <scope>::stop))
  <endif>
>>
**Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->get_type())"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
  this->get_input()->toStringSS( this->get_adaptor()->getTokenStartIndex(retval.start), this->get_adaptor()->
  getTokenStopIndex(retval.start))
  <else>
  this->get_strstream()->toStringTT(retval.start, this->LT(-1))
  <endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"
lexerRulePropertyRef_text(scope,attr) ::= "this->getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "this->get_state()->get_tokenStartLine()"
lexerRulePropertyRef_pos(scope,attr) ::= "this->get_state()->get_tokenStartCharPositionInLine()"
lexerRulePropertyRef_channel(scope,attr) ::= "this->get_state()->get_channel()"
lexerRulePropertyRef_start(scope,attr) ::= "this->get_state()->get_tokenStartCharIndex()"
lexerRulePropertyRef_stop(scope,attr) ::= "(this->getCharIndex()-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "((<name>ImplTraits::ConvertToInt32(<scope>->getText())))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
* any garbage collection, after code is executed even in backtracking
* mode. Must be documented clearly.
*/
execAfter(action) ::= <<

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
  if(backtracking)
    if(actions.(actionScope).synpredgate)
      
      {<action>}
    
    else
      if ( BACKTRACKING == 0 )
        
        {<action>}
      
      <endif>
    
  else
    
    {<action>}
  
  <endif>
>>

// M I S C (properties, etc...)

bitsetDeclare(bitsetname, words64, traits) ::= <<
  /** Bitset defining follow set for error recovery in rule state: <name> */
  static ANTLR_BITWORD <bitsetname>_bits[] = { <words64:it ANTLP_UINT64_LIT(<it>)>; separator="", "}
  static <traits>::BitsetListType <bitsetname>(<bitsetname>_bits, <length(words64)>);
>>

codeFileExtension() ::= ".cpp"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
  */opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Cpp/Cpp.stg
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  jar/org/stringtemplate/v4/misc/AmbiguousMatchException.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
  jar/org/stringtemplate/v4/misc/TypeRegistry.java
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/**
group AST;

@outputFile.imports() ::= <<
<@super.imports()><if(!TREE_PARSER)><! tree parser would already have imported !>
Antlr.Runtime.Tree,<\n><endif>
>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

@genericParser.membersConstructor() ::= <<
<@super.membersConstructor()>
<parserMembersConstructor()>
>>

@genericParser.membersImplementation() ::= <<
<@super.membersImplementation()>
<parserMembersImplementation()>
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
strict protected
  FAdaptor: ITreeAdaptor;
  procedure SetAdaptor(const Value: ITreeAdaptor);
  property Adaptor: ITreeAdaptor read FAdaptor;
public
  property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;

>>

parserMembersConstructor() ::= <<
FAdaptor := TCommonTreeAdaptor.Create;
>>

parserMembersImplementation() ::= <<
procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
begin
FAdaptor := Value;
<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor := FAdaptor;}>
end;
>>

@returnScope.ruleReturnMembers() ::= <<
function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
begin
Result := FTree;
end;

procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.SetTree(const Value: IANTLRInterface);
begin
FTree := Value as I<ASTLabelType>;
end;
>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
strict private
FTree: I<ASTLabelType>;
protected
{ IRuleReturnScope }
function GetTree: IANTLRInterface; override;
procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
Root[0] := nil;<\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
Root: array [0..63] of I<ASTLabelType>;
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree := nil;} separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree := nil;} separator="\n">
ruleLabelDefVars() ::= <<
<super.ruleLabelDefVars()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree: I<ASTLabelType>}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree: I<ASTLabelType>}; separator="\n">
>>

/** When doing auto AST construction, we must define some variables:
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)
@if(outerAlt)
@if(!rewriteMode)
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
@endif
@endif
@endif
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as IRewriteRuleElementStream).Add(<label>);
@endif
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
@if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as IRewriteRuleElementStream).Add(<label>);
@endif
>>
/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)> 
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule.name>'] as IRewriteRuleElementStream).Add(<label>.Tree);
</if>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)> 
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule>'] as IRewriteRuleElementStream).Add(<label>.Tree);
</if>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)> 
<listLabel(elem=label+".Tree",...)> 
>>

// Rewrite
rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements:          <referencedElementsDeep; separator="", ">
// token labels:      <referencedTokenLabels; separator="", ">
// rule labels:       <referencedRuleLabels; separator="", ">
// token list labels: <referencedTokenListLabels; separator="", ">
// rule list labels:  <referencedRuleListLabels; separator="", ">
<if(backtracking)>
if (State.Backtracking = 0) then begin
<endif>
<prevRuleRootRef()>.Tree := Root[0];
<rewriteCodeLabels()>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last),
retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.Tree := Root[0];<\n>
<endif>
<if(!rewriteMode)>
<prevRuleRootRef()>.Tree := Root[0];<\n>
<endif>
<if(backtracking)>
end;
<endif>
>>
rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);};
separator="\n"
>
<referencedTokenListLabels
: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', list_<it>);};
separator="\n"
/** Generate code for an optional rewrite block; note it uses the deep ref'd element list rather shallow like other blocks. */
rewriteOptionalBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
(* <fileName>:<description> *)
if (<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") then
begin
<alt>
end;
<referencedElementsDeep:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset;\n}> >
>>

rewriteClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
(* <fileName>:<description> *)
while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or ") do
begin
<alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();\n}> >
>>

rewritePositiveClosureBlock(
alt, rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  if (not (referencedElements: el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext; separator=" or "]) then raise ERewriteEarlyExitException.Create('');
while (referencedElements: el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext; separator=" or "]) do begin alt end;

rewriteAlt(a) ::= <<
  (* <a.description> *)
  if(a.pred) then begin a.alt end
  else begin a.alt end;
  endif
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
  (* <fileName>:<description> *)
  begin
    Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
    <root:rewriteElement()>
    <children:rewriteElement()>
    Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
  end;
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
  @@pregen()>
  <e.el>
>>

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/** Gen ID or ID[...]*/
rewriteTokenRefRef(token,elementIndex,terminalOptions,ctx,token) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>);<
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as I RewriterRuleElementStream).NextNode());<
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as I RewriterRuleElementStream).NextNode());<
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[...]) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,ctx,token) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as I<ASTLabelType>;<
>>

rewriteImaginaryTokenRef(ctx,token,terminalOptions,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);<
>>

rewriteImaginaryTokenRefRoot(ctx,token,terminalOptions,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...>), Root[<treeLevel>]) as I<ASTLabelType>;<
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
Root[0] = <action>;<
>>

/** What is the name of the previous value of this rule's root tree? This */
* let's us refer to $rule to mean previous value. I am reusing the

---
* variable 'tree' sitting in retval struct to hold the value of Root[0] right
* before I set it during rewrites. The assign will be to retval.Tree.
*/
prevRuleRootRef() ::= "RetVal"

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;
>>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>);
>>

rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
T<terminalOptions.node>.Create(<tokenType><if(args), <args; separator=", "><endif>)
Adaptor.CreateNode(<tokenType>, <args; separator="",">if(!<args>)"<tokenType>'<endif>) as I<ASTLabelType>
<endif>
>>

cREATERewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create((Locals['Stream_'<token>'] as IRewriteRuleElementStream).NextToken<if(args)>,
<args; separator="","><endif>)
<else>
<if(args)>
<!-- must create new node from old -->
Adaptor.Create(<token>, <args; separator="",">)
<else>
(LOCALS['Stream_'<token>'] as IRewriteRuleElementStream).NextNode
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/io/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Delphi/AST.stg
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources.jar/org/antlr/stringtemplate/misc/JTreeStringTemplateModel.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources.jar/org/antlr/stringtemplate/misc/StringTemplateTreeView.java
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/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/
// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
get
{
return adaptor;
}
set
{
<if(grammar.grammarIsRoot)>
this.adaptor = new DebugTreeAdaptor(dbg, adaptor);
<else>
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif>
<grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
}
}<
>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
<TREE_PARSER>input.TreeAdaptor</else>adaptor </endif>);
DebugListener = proxy;
<inputStreamType> = new Debug<inputStreamType>( input, proxy );
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>
@ctorForProfilingRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= ": base( input, dbg )"

@ctorForPredefinedListener.finally() ::= <<
@if(grammar.grammarIsRoot)<! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
<\n>
<endif>
>>

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp3/ASTDbg.stg
No license file was found, but licenses were detected in source scan.

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OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** The API version of the runtime that recognizers generated by this runtime
 * need. */

apiVersion() ::= "1"

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code. */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
   docComment, recognizer,
   name, tokens, tokenNames, rules, cyclicDFAs,
   bitsets, buildTemplate, buildAST, rewriteMode, profile,
   backtracking, synpreds, memoize, numRules,
   fileName, ANTLRVersion, generatedTimestamp, trace,
   scopes, superClass, literals) ::= <<
   # $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

   #@imports#
   import sys
   from antlr3 import *
   #@if(TREE_PARSER)#
   from antlr3.tree import *
   #@endif#
   #@end#

   # for convenience in actions
   HIDDEN = BaseRecognizer.HIDDEN

   # token types
   <tokens:{it | <it.name>=<it.type>}; separator="\n">  

   # token names
   tokenNamesMap = {
      0: "\<invalid>", 1: "\<EOR>", 2: "\<DOWN>", 3: "\<UP>",
      <tokens:{it | <it.name>="<it.type>"}; wrap, separator="",>
   }
   Token.registerTokenNamesMap(tokenNamesMap)

   #recognizer

   #@if(actions.(actionScope).main)#
   <actions.(actionScope).main>
   #@endif#
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
    if(LEXER):
        from antlr3.main import LexerMain
        main = LexerMain(<recognizer.name>)
    endif
    if(PARSER):
        from antlr3.main import ParserMain
        main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)
    endif
    if(TREE_PARSER):
        from antlr3.main import WalkerMain
        main = WalkerMain(<recognizer.name>)
    endif
    main.stdin = stdin
    main.stdout = stdout
    main.stderr = stderr
    main.execute(argv)
endif

if __name__ == '__main__':
    main(sys.argv)

>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode,
    labelType="CommonToken", superClass="Lexer") ::= 
    if(grammar.directDelegates):
    # path hack to allow absolute import of related grammars.
    from os.path import dirname
    __path__ = [dirname(__file__)]
    del dirname
    grammar.directDelegates:
    {g|from .<g.recognizerName> import <g.recognizerName>}; separator="\n"
    endif

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes:{it|if(it.isDynamicGlobalScope)>globalAttributeScope(scope=it)<@end}> |
    grammarFileName = "<fileName>"
    api_version = <apiVersion()>

    def __init__(self,delegators:{g|<g:delegateName()>}, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
super().__init__(input, state)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
<endif>
<endif>

<grammar.directDelegates:
    [g|self.<g:delegateName()> = <g.recognizerName>(({trunc(g.delegators):[p|p:delegateName()]}, self, input, state)); separator="\n">
<grammar.directDelegates:
    [g|<g.delegates:{h|self.<h:delegateName()> = self.<g:delegateName()>}; separator="\n">
<grammar.delegators:
    [g|self.<g:delegateName()> = <g:delegateName()]; separator="\n">
<last(grammar.delegators):
    [g|self.gParent = <g:delegateName()]; separator="\n">
self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", "]

<cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">
<actions.lexer.init>
<actions.lexer.members>

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{p | <lexerSynpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
def nextToken(self):
while True:
    if self.input.LA(1) == EOF:
        return self.makeEOFToken()

self._state.token = None
self._state.channel = DEFAULT_CHANNEL
self._state.tokenStartCharIndex = self.input.index()
self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
self._state.tokenStartLine = self.input.line
self._state._text = None
try:
    m = self.input.mark()
    try:
        # means we won't throw slow exception
        self._state.backtracking = 1
        try:
            self.mTokens()
        finally:
            self._state.backtracking = 0
    except BacktrackingFailed:
        # mTokens backtracks with synpred at backtracking==2
        # and we set the synpredgate to allow actions at level 1.
        self.input.rewind(m)
        self.input.consume() # advance one char and try again
    else:
        self.emit()
        return self._state.token
except RecognitionException as re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        super().memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super().alreadyParsedRule(input, ruleIndex)
    return False
actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
          bitsets, inputStreamType, superClass, labelType, members,
          rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<

# token names

tokenNames = ["\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
          "<tokenNames; wrap, separator="", "]
          
# path hack to allow absolute import of related grammars.
from os.path import dirname
__path__ = [dirname(__file__)]
del dirname

<grammar.directDelegates:
{g|from .<g.recognizerName> import <g.recognizerName>}; separator="\n”>
<endif>

<rules:<it[ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)> ]>
class <grammar.recognizerName>({@superClassName}<superClass>@end>):
    grammarFileName = "<fileName>
    api_version = <apiVersion()>
    tokenNames = tokenNames

def __init__(self<grammar.delegators:{g|, <g:delegateName()>}> , input, state=None, *args, **kwargs):
    if state is None:
        state = RecognizerSharedState()

        <@args()>
        super().__init__(input, state, *args, **kwargs)

        <if(memoize)>
        <if(grammar.grammarIsRoot)>
            self._state.ruleMemo = {}
        <endif>
        <endif>

<endif>
<endif>
<cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>}> <rules:{it | <ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>>}

<init>

<grammar.delegators:
{g|self.<g:delegateName>() = <g:delegateName>(); separator="\n"}>
<grammar.directDelegates:
{g|self.<g:delegateName>() = g.recognizerName(trunc(g.delegates):[p|p:delegateName()], }self, input, state)]; separator="\n">
<grammar.directDelegates:
{g|<g.delegates:{h|self.<h:delegateName>() = g.<delegateName()>.<h:delegateName()}>}; separator="\n"}
<last(grammar.delegators):
{g|self.gParent = self.<g:delegateName>()}; separator="\n"}>
 self.delegates = [<grammar.delegates: {g|self.<g:delegateName>()}>]; separator = ", "]

@@init@@end

@@members@@end

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)>}; separator="\n”>

<synpreds:{p | <synpred(p)>>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{it}|it};separator=", "]]<it}>; separator="", "]<\n>

>>
delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope();>):
<\>
<if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)
><ruleDescriptor.parameterScope:attributes:{a|a.name}; separator=", "]><endif>)
** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
        numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
        superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
        members={<actions.treeparser.members>},
        init={<actions.treeparser.init>}
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
        bitsets, "TreeNodeStream", superClass,
        labelType, members, "Node",
        filterMode, init, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.
* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope()>):
    <ruleLabelDefs()>
    <if(trace)>
        self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
        try:
            <block>
        finally:
            self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)
    </if(trace)>
}::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
        bitsets, "Object", superClass="Parser", labelType="Token",
        members={<actions.parser.members>},
        init={<actions.parser.init>}
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
        bitsets, "TokenStream", superClass,
        labelType, members, "Token",
        false, init, ASTLabelType)>
>>
```python
synpred(name) ::= <<
  def <name>(self):
    self._state.backtracking += 1
    #@start()
    start = self.input.mark()
    try:
      self.<name>_fragment()
    except BacktrackingFailed:
      success = False
    else:
      success = True
    self.input.rewind(start)
    #@stop()
    self._state.backtracking -= 1
    return success

>>

lexerSynpred(name) ::= <<
  <synpred(name)>

>>

ruleMemoization(name) ::= <<
  <if(memoize)>
  if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>  
  <endif>

>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>
  if self._state.backtracking > 0:
    raise BacktrackingFailed
```

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
  <if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)
  <endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  #@preamble()>
  #@body><ruleBody()><@end>
  #@postamble()>
  return <ruleReturnValue()>

# $ANTLR end "<ruleName>" >>
ruleBody() ::= <<
  <if(memoize)>
  <if(backtracking)>
  success = False
  <endif>
  <endif>
  try:
    try:
      <ruleMemoization(name=ruleName)>
      <block>
      <ruleCleanUp()>
      <(ruleDescriptor.actions.after):execAction()>

      <if(memoize)>
      <if(backtracking)>
        success = True
      <endif>
      <endif>
    <endif>
    <if(exceptions)>
      <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n}>
<else>
<if(!emptyRule>)
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
except RecognitionException as re:
 self.reportError(re)
 self.recover(self.input, re)
 <setErrorReturnValue()>
<endif>
<else>
finally:
 pass
<endif>
<endif>
finally:
<if(trace)>
 self.traceOut("<ruleName>", <ruleDescriptor.index>)<
>
<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
 pass
>>
catch(decl,action) ::= <<
except <e.decl>:
 <e.action>
>>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
 retval = self.<ruleDescriptor.name>_return()
 retval.start = self.input.LT(1)<\n>
<elseif(ruleDescriptor.returnScope)>
 <ruleDescriptor.returnScope.attributes:{ a |
 <a.name> = <if(a.initValue)><a.initValue><else>None<endif>
 |}
 >
<endif>
<if(memoize)>
 <ruleDescriptor.name>_StartIndex = self.input.index()
<endif>
>>
ruleScopeSetUp() ::= <<
ruleScopeCleanUp() ::= <<
      <ruleDescriptor.useScopes:{it | self.<it>_stack.pop()}; separator="\n">
      <ruleDescriptor.ruleScope:{it | self.<it.name>_stack.pop()}; separator="\n">
      >>

ruleLabelDefs() ::= <<
      <ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
      ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
        :{it | <it.label.text> = None}; separator="\n">
    >
    <:ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
    ruleDescriptor.wildcardTreeListLabels]
        :{it | list_<it.label.text> = None}; separator="\n">
    >
    <ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
    >
    LexerRuleLabelDefs() ::= <<
      <:ruleDescriptor.tokenLabels,
      ruleDescriptor.tokenListLabels,
      ruleDescriptor.ruleLabels]
        :{it | <it.label.text> = None}; separator="\n">
    >
    <:ruleDescriptor.charLabels:{it | <it.label.text> = None}; separator="\n">
    >
    <:ruleDescriptor.tokenListLabels,
    ruleDescriptor.ruleListLabels]
        :{it | list_<it.label.text> = None}; separator="\n">
    >
    >>

ruleReturnValue() ::= <%
      <if(!ruleDescriptor.isSynPred)>
      <if(ruleDescriptor.hasReturnValue)>
      <if(ruleDescriptor.hasSingleReturnValue)>
      <ruleDescriptor.singleValueReturnName>
      <else>
      retval
      <endif>
      <endif>
      <endif>
      %>

ruleCleanUp() ::= <<

```python
# How to generate a rule in the lexer; naked blocks are used for
# fragment rules.
"lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
def mruleName(self, ruleDescriptor,parameterScope): "<ruleName>"
    try:
        if(nakedBlock):
            <ruleMemoization(name=ruleName)>
            <lexerRuleLabelDefs()>
            <ruleDescriptor.actions.init>
            <block>
        else:
            _type = "<ruleName>
            _channel = DEFAULT_CHANNEL
            <ruleMemoization(name=ruleName)>
            <lexerRuleLabelDefs()>
            <ruleDescriptor.actions.init>
            <block>
            <ruleCleanUp()>
```
self._state.type = _type
self._state.channel = _channel
<ruleDescriptor.actions.after>:execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
  success = True
<endif>
<endif>

finally:
<if(trace)>
  self.traceOut("<ruleName>", <ruleDescriptor.index>)
<endif>
<ruleScopeCleanUp()> <memoize()> pass

# $ANTLR end "<ruleName>"

/** How to generate code for the implicitly-defined lexer grammar rule
*  that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
  <block>

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  alt<decisionNumber> = <maxAlt>
  <decls>
  <@body><blockBody()><@end>

blockBody() ::= <<
  <@predecision()>
  <@decision><decision><@end>
  <@postdecision()>
  <@predecision()>
  <@prebranch()>

<<

<<

<<

<<

<<
/* A rule block with multiple alternatives */
ruleBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
    # <fileName>:<description>
    alt<decisionNumber> = <maxAlt>
    <decls>
    #@predecision()>
    #@decision><decision><@end>
    #@postdecision()>
    <alts:{a | <altSwitchCase(i, a)>}; separator="\nel">
>>

ruleBlockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
    # <fileName>:<description>
    <decls>
    #@prealt()>
    <alts>
    #@postal()>
>>

/* A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
    # <fileName>:<description>
    <decls>
    #@prealt()>
    <alts>
    #@postal()>
>>

/* A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
    # <fileName>:<description>
    cnt<decisionNumber> = 0
    <decls>
    #@preloop()>
    #@loopBody>
    <positiveClosureBlockLoop()>
    #@end>
    #@postloop()>
>>

positiveClosureBlockLoop() ::= <<
    while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>:<description>
  <decls>
  @@preloop()
  @@loopBody
  @closureBlockLoop()
  @@end
  @@postloop()
>>

closureBlockLoop() ::= <<
  while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
    @@predecision()
    @@decisionBody<decision>@@end
    @@postdecision()
    <alts:{a | <altSwitchCase(i, a)>}; separator="\n">
    else:
      break #loop<decisionNumber>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
* so we can just use the normal block template */
optionalBlock ::= block
optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum,alt) ::= <<
if alt<decisionNumber> == <altNum>:
  <@prealt()>
  <alt>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt, treeLevel,rew) ::= <<
  # <fileName>:<description>
  pass <! so empty alternatives are a valid block !>
  <@declarations()>
  <elements:element()>
  <rew>
  <@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build mode, does nothing. */
norRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
  <@prematch()>
  <e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  <if(label)><label> = <endif>self.match(self.input, <token>,
  self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRef(token,label,elementIndex,terminalOptions=[])>
  <listLabel(label, label)>
>>

listLabel(label, elem) ::= <<
if list_<label> is None:
list_<label> = []
list_<label>.append(<elem>)<\n>
>>
/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
self.input.consume()
<postmatchCode>
<if(!LEXER)>
self._state.errorRecovery = False<\n>
<endif>
else:
<ruleBacktrackFailure()>
mse = MismatchedSetException(None, self.input)
<@mismatchedSetException()>
<if(LEXER)>
self.recover(mse)
raise mse
<else>
raise mse
<! use following code to make it recover inline; remove throw mse;
self.recoverFromMismatchedSet(
self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
)
!>
<endif>

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matchRuleBlockSet := matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...>)
<listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<label>Start = self.getCharIndex()
self.match(<string>)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.match(<string>)
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<label> = self.input.LT(1)
self.matchAny()
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>
<listLabel(label,label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<label> = self.input.LA(1)
self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)><label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">))
self._state.following.pop()
>>

/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<label, label)>
>>

/** A lexer rule reference
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
   input=self.input,
   type=INVALID_TOKEN_TYPE,
   channel=DEFAULT_CHANNEL,
   start=<label>Start<elementIndex>,
   stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
    if(label)
    <label>Start<elementIndex> = self.getCharIndex()
    <label>StartLine<elementIndex> = self.getLine()
    <label>StartCharPos<elementIndex> = self.getCharPositionInLine()
    self.match(EOF)
    <label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL, start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
    <label>.line = <label>StartLine<elementIndex>
    <label>.charPositionInLine = <label>StartCharPos<elementIndex>
    else
    self.match(EOF)
    endif
>>

// used for left-recursive rules
recRuleDefArg() ::= "<recRuleArg()>
recRuleArg() ::= ",p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> <= <opPrec>"
recRuleSetResultAction() ::= "root_0 = $ruleName._primary.tree"
recRuleSetReturnAction(src, name) ::= "$name = $src.<name>"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
    <root:element()>
    <actionsAfterRoot:element()>
    if(nullableChildList)
    if self.input.LA(1) == DOWN:
        self.match(self.input, DOWN, None)
        <children:element()>
        self.match(self.input, UP, None)
    else
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
    endif
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred, description) ::= <<
if not (<evalPredicate(pred, description)>):
    <ruleBacktrackFailure()>
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")
>>

// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
    <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>
    <else>
        <ruleBacktrackFailure()>
        nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)
        <@noViableAltException()>
        raise nvae
    <endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\n">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for (')* people
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\n">
@if(edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
    alt<decisionNumber> = <eotPredictsAlt>
</if(edges)>
>>
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
<targetState>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<<
FIXME: this is one of the few occasion, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator=":\n">
else:
@if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>
<else>
<ruleBacktrackFailure()>
 nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
<@noViableAltException()>
raise nvae<\n>
<endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator=":\n">
>>
dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="ne!">
<if(eotPredictsAlt)>
else:
    alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if LA<decisionNumber> in {<labels; separator=", "}:
<targetState>
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used */
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values. */
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>._eot = DFA.unpack("<dfa.javaCompressedEOT; wrap="\"\n \"">")

DFA<dfa.decisionNumber>._eof = DFA.unpack("<dfa.javaCompressedEOF; wrap="\"\n \"">")

DFA<dfa.decisionNumber>._min = DFA.unpack("<dfa.javaCompressedMin; wrap="\"\n \"">")

DFA<dfa.decisionNumber>._max = DFA.unpack(}
"<dfa.javaCompressedMax; wrap="\n   ">
"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack("<dfa.javaCompressedAccept; wrap="\n   ">
"
)

DFA<dfa.decisionNumber>_special = DFA.unpack("<dfa.javaCompressedSpecial; wrap="\n   ">
"
)

DFA<dfa.decisionNumber>_transition = [
   DFA.unpack("<s; wrap="\n   ">")
]

DFA<dfa.decisionNumber>._transition = [
   DFA.unpack("<s; wrap="\n   ">")
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

    #@errorMethod()

@if(dfa.specialStateSTs)
    def specialStateTransition(self_, s, input):
        # convince pylint that my self_ magic is ok ;)
        # pylint: disable-msg=E0213
        # pretend we are a member of the recognizer
        # thus semantic predicates can be evaluated
        self = self_.recognizer

        _s = s

        <dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
        <state> }; separator="\n   ">

        <if(backtracking)
            if self_.state.backtracking > 0:
                raise BacktrackingFailed

        <endif>
        nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
        self_.error(nvae)
        raise nvae

        <endif>

    >>
cyclicDFAInit(dfa) ::= <<
    self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
        self, <dfa.decisionNumber>,
        eot = self.DFA<dfa.decisionNumber>._eot,
        eof = self.DFA<dfa.decisionNumber>._eof,
        min = self.DFA<dfa.decisionNumber>._min,
        max = self.DFA<dfa.decisionNumber>._max,
        accept = self.DFA<dfa.decisionNumber>._accept,
        special = self.DFA<dfa.decisionNumber>._special,
        transition = self.DFA<dfa.decisionNumber>._transition
    )
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    LA<decisionNumber>_<stateNumber> = input.LA(1)<
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
        index<decisionNumber>_<stateNumber> = input.index()
        input.rewind()<
    <endif>
    s = -1
    <edges; separator="\el">
    <if(semPredState)> <! return input cursor to state before we rewound !>
        input.seek(index<decisionNumber>_<stateNumber>)<
    <endif>
    if s >= 0:
        return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
    if (<labelExpr>) <if(predicates)> and (<predicates>) <endif>:
        s = <targetStateNumber><
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
    se:
        s = <targetStateNumber><
>>
// DFA EXPRESSIONS

andPredicates(left, right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<operands; separator=" or ">)"

notPredicate(pred) ::= "not (<evalPredicate(pred, { })>)"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "self.<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom, k, atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <%
( lower <= LA<decisionNumber>_<stateNumber> <= upper )
%

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(lower <= self.input.LA(<k>) <= upper)"

lookaheadSetTest(values, k, valuesAsInt) ::= <%
LA<decisionNumber>_<stateNumber> in {<values; separator=" ">}
%

isolatedLookaheadSetTest(values, k, valuesAsInt) ::= <%
sel.input.LA(<k>) in {<values; separator=" ">}
%

lookaheadVarName(k) ::= "LA<decisionNumber>_<stateNumber>"

isolatedLookaheadVarName(k) ::= "self.input.LA(<k>)"

setTest(ranges) ::= "<ranges; separator="# or ">"

// ATTRIBUTES

globalAttributeScopeClass(scope) ::= <%
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n"
globalAttributeScopeStack(scope) ::= <<
<if(scope)
<if(scope.attributes)
self.<scope.name>_stack = []
<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope)
<if(scope.attributes)
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">
<endif>
<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)
<if(scope.attributes)
self.<scope.name>_stack = []
<endif>
<endif>
>>
delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>

returnStructName(r) ::= "<r.name>_return"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(\(\text{ruleDescriptor}.\text{hasMultipleReturnValues}\))>
\[
\text{class } \text{\text{ruleDescriptor}.\text{returnStructName}}()\left(\langle\text{\text{TREE\_PARSER}}\rangle\text{Tree}\langle\text{else}\rangle\text{Parser}\langle\text{endif}\rangle\text{RuleReturnScope}\right):
\]
\[
\begin{align*}
\text{def } \_\_\text{init}\_\_\text{\text{(}}\text{self}\text{)}:\hfill & \\
\text{super()}\_\_\text{init}\_\()\text{\text{)}:} & \end{align*}
\]
\[
\langle\text{\text{if}}(\text{scope})\rangle\text{\text{scope}.attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|\}\text{\text{scope}\_\text{attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|\}}\text{\text{scope}\_\text{attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|\}}\text{\text{scope}\_\text{attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|\}}\text{\text{scope}\_\text{attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|}\text{\text{scope}\_\text{attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|}\text{\text{scope}\_\text{attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|}\text{\text{scope}\_\text{attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|}\\
\end{align*}
\]

\text{\text{@ruleReturnInit}}():\\
\]

\text{\text{@ruleReturnMembers}}():\\
\]

\text{\text{endif}}\\
\]

\text{\text{>>}}\\

\text{\text{parameterScope}}(\text{scope}) ::= \langle\text{\text{if}}(\text{scope})\rangle\text{\text{scope}.attributes: } \{\text{it } | \text{self.}\text{.}\text{it}.\text{decl} = \text{None}\}; \text{separator} = \text{"|}\\
\text{\text{>>}}\\

\text{\text{parameterAttributeRef}}(\text{attr}) ::= "\text{\text{attr}.name}"\\
\text{\text{parameterSetAttributeRef}}(\text{attr},\text{expr}) ::= "\text{\text{attr}.name} = \text{\text{expr}}"\\

\text{\text{scopeAttributeRef}}(\text{scope},\text{attr},\text{index},\text{negIndex}) ::= <\%
\text{\text{if(negIndex)}}\text{\text{self.}}\text{.}\text{\text{scope}\_\text{stack}[-\text{negIndex}].}\text{\text{attr}.name}\\
\text{\text{else}}}\text{\text{self.}\text{.}\text{\text{scope}\_\text{stack}[\text{index}].}\text{\text{attr}.name}\\
\text{\text{else}}}\text{\text{self.}\text{.}\text{\text{scope}\_\text{stack}[-1].}\text{\text{attr}.name}\\
\text{\text{endif}}\\
\text{\text{endif}}\\
\%
\]

\text{\text{/* not applying patch because of bug in action parser!}}\
\]

\text{\text{\begin{align*}
\text{\text{if(negIndex)}}\text{\text{(len(self.}\text{.}\text{scope}\_\text{stack}) - \text{negIndex} - 1)} \geq \text{0 and [self.}\text{.}\text{scope}\_\text{stack}[-\text{negIndex}].}\text{\text{attr}.name]} \text{or [None]}[0]\\
\text{\text{else}}}\text{\text{(len(self.}\text{.}\text{scope}\_\text{stack}) > 0)} \text{and [self.}\text{.}\text{scope}\_\text{stack}[\text{index}].}\text{\text{attr}.name]} \text{or [None]}[0]\\
\text{\text{else}}}\text{\text{(len(self.}\text{.}\text{scope}\_\text{stack}) - \text{negIndex} - 1) \geq \text{0 and [self.}\text{.}\text{scope}\_\text{stack}[-\text{negIndex}].}\text{\text{attr}.name]} \text{or [None]}[0]\\
\text{\text{endif}}\\
\text{\text{endif}}\\
\%
\end{align*}}
\]

\text{\text{scopeSetAttributeRef}}(\text{scope},\text{attr},\text{expr},\text{index},\text{negIndex}) ::= <\%

<if(negIndex)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
<if(index)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[<index>].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
%

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
<else>
<scope>
<endif>
%

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example; :( 

tokenLabelPropertyRef_text(scope, attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope, attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope, attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope, attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope, attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope, attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope, attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope, attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope, attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope, attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope, attr) ::= 
  <if(TREE_PARSER)>
  ((<scope> is not None) and [self.input.getTokenStream().toString(
    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
  )] or [None])[0]
  <else>
  ((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None])[0]
  <endif>

/*

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope, attr) ::= "retval.start"
rulePropertyRef_stop(scope, attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope, attr) ::= "retval.tree"
rulePropertyRef_text(scope, attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope, attr) ::= "retval.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope, attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope, attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope, attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope, attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope, attr) ::= "((<scope> is not None) and [text(<scope>.text)] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope, attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

*/
lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
  <if(actions.(actionScope).synpredgate)>
  if <actions.(actionScope).synpredgate>:
    pass
    <action>
  <else>
  if <actions.(actionScope).synpredgate>:
    pass
    <action>
  <endif>
  <else>
  #action start
  <action>
  #action end
  <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"
true_value() ::= "True"
false_value() ::= "False"
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 */

/** Templates for building ASTs during normal parsing.
 *
 * Deal with many combinations. Dimensions are:
 * Auto build or rewrite
 * no label, label, list label (label/no-label handled together)
 * child, root
 * token, set, rule, wildcard
 *
 * The situation is not too bad as rewrite (->) usage makes ^ and !
 * invalid. There is no huge explosion of combinations.
 */

finishedBacktracking(block) ::= <<
  <if(!ruleDescriptor.isSynPred>
  <if(backtracking)>

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if <actions.(actionScope).synpredgate>:
    <block>
    <else>
    <block>
    <endif>
    <endif>
    >>

@ruleBody.setErrorReturnValue() ::= <<
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={ }) ::= "<super.tokenRef(...)>

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<tokenRefBang(...>)
$listLabel(elem=label,...)
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<tokenRef(...>)
$listLabel(elem=label,...)
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)> 
<listLabel(elem=label,...)> 
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>)})}>}, ...)>
%>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(...)>

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(postmatchCode={<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})}>}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex, args, scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)})>
>>
/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(label, {<label>.tree})>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

// WILDCARD AST
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>

wildcardRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

createNodeFromToken(label,terminalOptions={}) ::= %
<if(terminalOptions.node)>
<terminalOptions.node>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
%

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>>
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python3/ASTParser.stg
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*/

dfa(decisionRanks,states,edges,rankdir,startState,useBox) ::= <<
digraph NFA {
  <if(rankdir)>rankdir=<rankdir>;<endif>
  <decisionRanks; separator="\n">
  <states; separator="\n">
  <edges; separator="\n">
}
>>

nfa(decisionRanks,states,edges,rankdir,startState) ::= <<
digraph NFA {
  rankdir=LR;
  <decisionRanks; separator="\n">
  <states; separator="\n">
  <edges; separator="\n">
}
>>

decision-rank(states) ::= <<
  [ rank=same; rankdir=TB; <states; separator="; "; > ]
} >>

edge(src,target,label,arrowhead) ::= <<
  <src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)> , arrowhead = <arrowhead><endif> ];
} >>

action-edge(src,target,label,arrowhead) ::= <<
  <src> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7, label = "<label>"<if(arrowhead)> , arrowhead = <arrowhead><endif> ];
} >>

epsilon-edge(src,target,label,arrowhead) ::= <<
  <src> -> <target> [fontname="Times-Italic", label = "e"];
} >>

state(name,useBox) ::= <<
  node [fontsize=11, shape = <if(useBox)>box<else>circle, fixedsize=true, width=.4<endif>]; <name>
} >>

stopstate(name,useBox) ::= <<
  node [fontsize=11, shape = <if(useBox)>polygon,sides=4,peripheries=2<else>doublecircle, fixedsize=true, width=.6<endif>]; <name>
} >>
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Add an adaptor property that knows how to build trees */
@headerFile.members() ::= <<
/* @headerFile.members() */
pANTLR3_BASE_TREE_ADAPTORadaptor;
pANTLR3_VECTOR_FACTORYvectors;
/* End @headerFile.members() */
>>

/** Install the tree adaptor interface pointer and anything else that
 *  tree parsers and producers require.
 */
@genericParser.apifuncs() ::= <<
>
@if(PARSER)
ADAPTOR= ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);
@endif
ctx->vectors= antlr3VectorFactoryNew(0);

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
@if(PARSER)
/* We created the adaptor so we must free it */
ADAPTOR->free(ADAPTOR);
@endif

@returnScope.ruleReturnMembers() ::= <<

<super.ASTLabelType()>tree;

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;\n>>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;\n>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites :
:{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites :
:{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}; separator="\n">
>>

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
* one alt will be taken in a rule, but we are declaring all the streams here. So we define
* a macro that contains the create code, then use this macro later to check if the stream
* has been created yet. Checking for NULL is almost free in C.
*/
/**  a rule label including default value */
ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)>
<label.label.text>.tree = NULL;
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)>
<endif>
<endif>
>>

@alt.initializations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@if(!rewriteMode)>
root_0 = (<ASTLabelType>(ADAPTOR->nilNode(ADAPTOR)))(ADAPTOR->nilNode(ADAPTOR));
<endif>
<endif>
<endif>
// Tracking Rule Elements

/** ID but track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>> ! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and* * to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif><
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)
<listLabelTrack(...)
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
}}
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
      <ruleRefRuleRootTrack(...)>
      <listLabelAST(...)>
>>

// RULE REF AST

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
      <tokenRefRuleRootTrack(...)>
      <listLabel(elem=label,...)>}
>>

/* How to accumulate lists when we are doing rewrite tracking... */
listLabelTrack(label) ::= <<
/* listLabelTrack(label) */
if (list_<label> == NULL)
{
   list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <label>.tree, NULL);
>>

/* How to accumulate lists of rule outputs (only allowed with AST */
* option but if the user is going to walk the tree, they will want
* all their custom elements from rule returns.
*
* Normally, we use inline structures (which the compiler lays down
* code to copy from heap allocations. However, here we want to accumulate copies
* of the returned structures because we are adding them to a list. This only makes sense if the
* grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure
* returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to
* do a tree re-write, then the user may wish to iterate the structures returned by the rule in
* action code and will expect the user defined returns[] elements to be available when they do this.
* Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide
* a function that can free the allocated space. We cannot know how to free user allocated elements and
* presume that the user will know to do this using their own factories for the structures they allocate.
*/
listLabelAST(label) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
{
    RETURN_TYPE_<label> * tcopy;

    tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no memory allocation checks! */
    ANTLR3_MEMCPY((void *)(tcopy), (const void *)&<label>, sizeof(RETURN_TYPE_<label>));
    list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */
}
>>

// R e w r i t e

rewriteCode(
  alts,
  description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel,
  enclosingTreeLevel,
  treeLevel) ::= <<
  /* AST REWRITE
   * elements : <referencedElementsDeep; separator="",">
   * token labels : <referencedTokenLabels; separator="", >
   * rule labels : <referencedRuleLabels; separator="", >
   * token list labels : <referencedTokenListLabels; separator="", >
   * rule list labels : <referencedRuleListLabels; separator="", >
   */
  <if(backtracking)>
  if ( <actions.(actionScope).synpredgate> ) <\n  <endif>
  {
  <rewriteCodeLabelsDecl()>
  <rewriteCodeLabelsInit()>
  root_0 = (<ASTNodeType>)(ADAPTOR->nilNode(ADAPTOR));
  <prevRuleRootRef()>.tree = root_0;
  <alts:rewriteAlt(); separator="else ">
<if(TREE_PARSER>)
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
    ADAPTOR->getChildIndex(ADAPTOR, retval.start),
    ADAPTOR->getChildIndex(ADAPTOR, _last),
    retval.tree);
<endif>
<endif>
<prevRuleRootRef()>.tree = root_0; // set result root
<rewriteCodeLabelsFree()>

}
>>

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
    :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
    separator="\n"
>
<referencedTokenListLabels
    :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
    separator="\n"
>
<referencedRuleLabels
    :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
    separator="\n"
>
<referencedRuleListLabels
    :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
    separator="\n"
>>

rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
    :{it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER,
    (pANTLR3_UINT8)"token <it>", <it>);};
    separator="\n"
>
<referencedTokenListLabels
    :{it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER,
    (pANTLR3_UINT8)"token <it>", list_<it>); }; 
    separator="\n"
>
<referencedRuleLabels
    :{it | stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER,
    (pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);};
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt,
  rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
  // <fileName>:<description>

  { if ( referencedElementsDeep: [el | (stream_<el> != NULL && stream_<el>-hasNext(stream_<el>)) ];
    separator="|| " ) }

  { <alt> }

  <referencedElementsDeep: [el | (stream_<el> != NULL) stream_<el>-reset(stream_<el>);<\n> ]}<\n>
>>
rewriteClosureBlock(alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  // <fileName>::<description>
  {
    while ( <referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) } ; separator="|| " )
    {
      <alt>
    }
    <referencedElements:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>)};\n> }
  }<\n>
>>

RewriteEarlyExitException() ::= <<
  CONSTRUCTEX();
  EXCEPTION->type = ANTLR3_REWRITE_EARLY_EXCEPTION;
  EXCEPTION->name = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>>

rewritePositiveClosureBlock(alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::= <<
  if ( <referencedElements:{el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) } ; separator="|| " )
  {
    <RewriteEarlyExitException()>
  }
  else
  {
    while ( <referencedElements:{el | (stream_<el>->hasNext(stream_<el>)) } ; separator="|| " )
      {
        <alt>
      }
    <referencedElements:{el | stream_<el>->reset(stream_<el>);\n}> }
  }
>>

rewriteAlt(a) ::= <<
  // <a.description>
  <if(a.pred)>
    if (<a.pred>)
    {

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* \-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
    // <fileName>:<description>
    {
        ASTLabelType> root_<treeLevel> = (ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
        root:rewriteElement() 
        children:rewriteElement() 
        ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
    }
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>

rewriteElement(e) ::= <<
    @pregen() 
    <e.e1> 
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
    ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
    ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>->nextNode(stream_<label>));
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
    ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>->nextNode(stream_<label>));
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<


root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ? NULL : stream_<label>->nextToken(stream_<label>), root_<treeLevel>));

/** Gen ^($label ...) where label+==... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createRewriteNodeFromElement(...), root_<treeLevel>));
>>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);
>>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createImaginaryNode(tokenType=token, ...), root_<treeLevel>));
>>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<<
root_0 = <action>;
>>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule,dup) ::= <<<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule> == NULL ? NULL : stream_<rule>-
>nextTree(stream_<rule>));
>>>

rewriteRuleRefRoot(rule,dup) ::= <<<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule> == NULL ? NULL
: stream_<rule>->nextNode(stream_<rule>), root_<treeLevel>));
>>>

rewriteNodeAction(action) ::= <<<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);
>>>

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rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));</n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));</n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));</n>
>>

/** Gen ^(ruleLabel ... where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<label> == NULL ? NULL :
stream_<label>->nextNode(stream_<label>), root_<treeLevel>));</n>
>>

/** Gen ^(ruleLabel ... where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(stream_<label> == NULL ? NULL :
stream_<label>->nextNode(stream_<label>), root_<treeLevel>));</n>
>>

rewriteWildcardLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));</n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
<terminalOptions.node>New(<tokenType><if(args)>, <args; separator=", "><endif>
<else>
<if(args)>
#if length(args) == 2
(<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator=", ">))
#else
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args;
separator=", ">)
#endif
createRewriteNodeFromElement(token, terminalOptions, args) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>New(stream_<token>->nextToken(stream_<token>)<if(args)>, <args; separator=","",
""><endif>)
<else>
<if(args)> <! must create new node from old !>
#if<length(args)> == 2
ADAPTOR->createTypeTokenText(ADAPTOR, <token>->getType(<token>, TOKTEXT(<token>, <args;
separator="", "">)) /* JIMI */
#else
ADAPTOR->createTypeToken(ADAPTOR, <token>->getType(<token>, <token>, <args; separator="", "">)
#endif
<else>
stream_<token> == NULL ? NULL : stream_<token>->nextNode(stream_<token>)
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/117329537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/AST.stg
No license file was found, but licenses were detected in source scan.

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/** Template overrides to add debugging to normal C output; *  If ASTs are built, then you'll also get ASTDbg.str loaded. */
@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
const char *
ruleNames[] =
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", ">
};<\n>
<endif>
<if(grammar.grammarIsRoot) <| grammar imports other grammar(s) !>
static ANTLR3_UINT32 ruleLevel = 0;
static ANTLR3_UINT32 getRuleLevel()
{
return ruleLevel;
}
static void incRuleLevel()
{
ruleLevel++;}
static void decRuleLevel()
{
ruleLevel--;
}
<else <| imported grammar !>
static ANTLR3_UINT32 getRuleLevel()
{
return <grammar.delegators:{g| <g:delegateName()>}>->getRuleLevel();
}
static void incRuleLevel()
{
<grammar.delegators:{g| <g:delegateName()> }->incRuleLevel();
}
static void
decRuleLevel()
{
    <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel();
}
    
@endif
@if(profile)
// Profiling not yet implemented for C target
    //
@endif
@if(grammar.grammarIsRoot)
ctorForPredefinedListener()
<else>
ctorForDelegateGrammar()
@endif

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
} <\n>
>>

@genericParser.debugStuff() ::= <<
@if(grammar.grammarIsRoot)
createListenerAndHandshake()
@endif
>>

tctorForProfilingRootGrammar() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
tctorForDelegateGrammar() ::= <<
>>

tctorForPredefinedListener() ::= <<
>>

createListenerAndHandshake() ::= <<
|
// DEBUG MODE code
|
//
pANTLR3_DEBUG_EVENT_LISTENER	 proxy;
proxy = antlr3DebugListenerNew();
proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory, (pANTLR3_UINT8)ctx->getGrammarFileName());

@if(TREE_PARSER>
proxy->adaptor = ADAPTOR;
@endif>
PARSER->setDebugListener(PARSER, proxy);

// Try to connect to the debugger (waits forever for a connection)
//
proxy->handshake(proxy);

// End DEBUG MODE code
//
}
>>

@rule.preamble() ::= <<
if ( getRuleLevel()==0 )
{
DBG->commence(DBG);
}
DBG->enterRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);
>>

@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 )
{
DBG->terminate(DBG);
}
</
>>

@checkRuleBacktrackFailure.debugClean() ::= <<
DBG->exitRule(DBG, getGrammarFileName(), (const char *)"<ruleName>");
decRuleLevel();
>>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"

@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"
// Common debug event triggers used by region overrides below

enterSubRule() ::= "DBG->enterSubRule(DBG, <decisionNumber>);<\n>"

exitSubRule() ::= "DBG->exitSubRule(DBG, <decisionNumber>);<\n>"

enterDecision() ::= "DBG->enterDecision(DBG, <decisionNumber>);<\n>"

exitDecision() ::= "DBG->exitDecision(DBG, <decisionNumber>);<\n>"

enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()> <enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="/1")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n="/1")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::= "DBG->recognitionException(DBG, EXCEPTION);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"
@closureBlock.postdecision() ::= "<exitDecision()>

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>

@element.prematch() ::= "DBG->location(DBG, <e.line>, <e.pos>);" // e is arg of element

@matchSet.mismatchedSetException() ::= "DBG->recognitionException(DBG, EXCEPTION);

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,&cdfa<decisionNumber>);
if  (HASEXCEPTION())
{
  DBG->recognitionException(DBG, EXCEPTION);
  goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>>

@cyclicDFA.errorMethod() ::= <<
//static void
//dfaError(p<name> ctx)
//{
//  DBG->recognitionException(DBG, EXCEPTION);
//}
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)&"<description>"
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/C/Dbg.stg
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/*
** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
@outputFile.imports() ::= <<
<@super.imports()>
import org.antlr.runtime.debug.*;
import java.io.IOException;
>>
@genericParser.members() ::= <<
@if(grammar.grammarIsRoot)
public static final String[] ruleNames = new String[] {
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\t\t", separator="", >
};
</if>
public static final boolean[] decisionCanBacktrack = new boolean[] {
false, // invalid decision
<grammar.decisions:{d | <d.dfa.hasSynPred; null="false">}; wrap="\n \", separator="", >
};
@if(grammar.grammarIsRoot) <! grammar imports other grammar(s) !>
public int ruleLevel = 0;
public int getRuleLevel() { return ruleLevel; }
public void incRuleLevel() { ruleLevel++; }
public void decRuleLevel() { ruleLevel--; }
@if(profile)
<ctorForProfilingRootGrammar()>
<else>
public int getRuleLevel() { return <grammar.delegators:{g| <g:delegateName()>}>.getRuleLevel(); }
public void incRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.incRuleLevel(); }
public void decRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel(); }
<ctorForDelegateGrammar()>
<endif>

<if(profile)>
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
int stopIndex = getRuleMemoization(ruleIndex, input.index());
((Profiler)dbg).examineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return super.alreadyParsedRule(input, ruleIndex);
}

@Override
public void memoize(IntStream input,
int ruleIndex,
int ruleStartIndex)
{
((Profiler)dbg).memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
super.memoize(input, ruleIndex, ruleStartIndex);
}

protected boolean evalPredicate(boolean result, String predicate) {
dbg.semanticPredicate(result, predicate);
return result;
}<endif>

ctorForRootGrammar() ::= <<
<! bug: can't use @@super.members() cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name>(<inputStreamType> input) {
this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}

public <name>(<inputStreamType> input, int port, RecognizerSharedState state) {
super(input, state);
<ctorCtorBody()>}
<createListenerAndHandshake()>
<grammar.directDelegates:{g| <g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g| <g:delegateName()>}>);} separator="\n">
ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name>(<inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}
ctorForDelegateGrammar() ::= <<
    public <name>(<inputStreamType> input, DebugEventListener dbg, RecognizerSharedState state) {
        super(input, dbg, state);
        Profiler p = (Profiler)dbg;
        parserCtorBody();
        grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state, this<grammar.delegators:
        {g|, <g:delegateName()>}>);}; separator="\n";
    }<@finally()>
}
ctorPredefinedListener() ::= <<
    public <name>(<inputStreamType> input, DebugEventListener dbg) {
        if(profile)
            Profiler p = (Profiler)dbg;
        parserCtorBody();
        grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegators:
        {g|, <g:delegateName()>}>);}; separator="\n";
    }<@finally()>
>>
createListenerAndHandshake() ::= <<
    if(TREE_PARSER)
        DebugEventSocketProxy proxy =
new DebugEventSocketProxy(this, port, input.getTreeAdaptor());
<else>
DebugEventSocketProxy proxy =
new DebugEventSocketProxy(this, port, null);
<endif>
setDebugListener(proxy);
try {
proxy.handshake();
} catch (IOException ioe) {
reportError(ioe);
}
>>

@genericParser.superClassName() ::= "Debug" <> super.superClassName() >

@rule.preamble() ::= <<
try { dbg.enterRule(getGrammarFileName(), "<ruleName>");
if ( getRuleLevel()==0 ) {dbg.commence();}
incRuleLevel();
dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine>);
>

@rule.postamble() ::= <<
dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
}
finally {
dbg.exitRule(getGrammarFileName(), "<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 ) {dbg.terminate();}
}<n>
>>

@synpred.start() ::= "dbg.beginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.endBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

tenertSubRule() ::= 
"try { dbg.enterSubRule(<decisionNumber>);}<n>"

exitSubRule() ::= 
"} finally {dbg.exitSubRule(<decisionNumber>);}<n>"

enterDecision() ::= 
"try { dbg.enterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);}<n>"
exitDecision() ::= "\} finally {dbg.exitDecision(<decisionNumber>);\} <n>"

enterAlt(n) ::= "dbg.enterAlt(<n>);<n>"

// Region overrides that tell various constructs to add debugging triggers
@block.predecision() ::= "<enterSubRule()> <enterDecision()>
@block.postdecision() ::= "<exitDecision()>
@block.postbranch() ::= "<exitSubRule()>
@ruleBlock.predecision() ::= "<enterDecision()>
@ruleBlock.postdecision() ::= "<exitDecision()>
@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>
@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>
@positiveClosureBlock.preloop() ::= "<enterSubRule()>
@positiveClosureBlock.postloop() ::= "<exitSubRule()>
@positiveClosureBlock.predecision() ::= "<enterDecision()>
@positiveClosureBlock.postdecision() ::= "<exitDecision()>
@positiveClosureBlock.earlyExitException() ::= "dbg.recognitionException(eee);<n>"
@closureBlock.preloop() ::= "<enterSubRule()>
@closureBlock.postloop() ::= "<exitSubRule()>
@closureBlock.predecision() ::= "<enterDecision()>
@closureBlock.postdecision() ::= "<exitDecision()>
@altSwitchCase.prealt() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase
@element.prematch() ::= "dbg.location(<e.line>,<e.pos>);" // e is arg of element
@matchSet.mismatchedSetException() ::= "dbg.recognitionException(mse);"
@dfaState.noViableAltException() ::= "dbg.recognitionException(nvae);"

@dfaStateSwitch.noViableAltException() ::= "dbg.recognitionException(nvae);"

dfaDecision(decisionNumber,description) ::= <<
    try {
        isCyclicDecision = true;
        <super.dfaDecision(...)>
    }
    catch (NoViableAltException nvae) {
        dbg.recognitionException(nvae);
        throw nvae;
    }
>>

@cyclicDFA.errorMethod() ::= <<
    public void error(NoViableAltException nvae) {
        dbg.recognitionException(nvae);
    }
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(<pred>,"<description>")
>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Java/Dbg.stg
No license file was found, but licenses were detected in source scan.

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*/

csharpVisibilityMap ::= [
"private":"private",
"protected":"protected",
"public":"public",
"fragment":"private",
default:"private"
]

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
//\-----------------------------------------------
// \$ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<if(trace)>
#define ANTLR_TRACE
<endif>
<@debugPreprocessor()>
// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 168, 219
// Unreachable code detected.
#pragma warning disable 162
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma warning disable 1591

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
<endif>
using ConditionalAttribute = System.Diagnostics.ConditionalAttribute;
<@end>
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>
<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>
} // namespace <actions.(actionScope).namespace>
<endif>
>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif> }) ::= <<
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> : 
<@superClassName><superClass><@end>
{
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
<scopes:{it|<if(it.isDynamicGlobalScope)<globalAttributeScope(scope=it)><endif> }}>
<actions.lexer.members>
// delegates
<grammar.delegates:
  {g|private <g.recognizerName> <g.delegateName()>;}; separator="\n"}
// delegators
<grammar.delegators:
  {g|private <g.recognizerName> <g.delegateName()>;}; separator="\n"
<last(grammar.delegators):{g|private <g.recognizerName> gParent;}>

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<! needed by subclasses !>
{
  OnCreated();
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
  : this(input, new RecognizerSharedState<grammar.delegators:{g|, <g:delegateName()>}>())
  {
  }

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input,
  RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
  : base(input, state)
  {
    <if(memoize)>
      <if(grammar.grammarIsRoot)>
        int, int>[<numRules>+1];<! index from 1..n !>
      </endif>
    </endif>
  
  <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegators):{p|,
      <p:delegateName()>}, this);}; separator="\n"}
  
  <grammar.delegators:
    {g|this.<g.delegateName()> = <g:delegateName()>;}; separator="\n"
  <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>

  OnCreated();
  }
public override string GrammarFileName { get { return "<fileName>"; } }

private static readonly bool[] decisionCanBacktrack = new bool[0];

<if(grammar.hasDelegates)>
public override <lexerInputStreamType()> CharStream
{
  get
  {
    return base.CharStream;
  }
}
set
{
base.CharStream = value;
<grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()>}>,
        this);}; separator="\n">
<grammar.delegators:
    {gl|this.<g:delegateName()> = <g:delegateName>();}; separator="\n">
<last(grammar.delegators):{g|gParent = <g:delegateName>();}>
}
}

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
base.SetState(state);
<grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
}
<endif>

<endif>
<if(filterMode)>
<filteringNextToken()>
<endif>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}  
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string ruleName, int ruleIndex) {}  
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}  

<rules; separator="\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
base.InitDFAs();
<cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
    SpecialStateTransition<dfa.decisionNumber><endif>);}; separator="\n">
}
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= 

public override IToken NextToken()
{
while (true)
{
if (input.LA(1) == CharStreamConstants.EndOfFile)
{
IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default, input.Index, input.Index);
eof.Line = Line;
eof.CharPositionInLine = CharPositionInLine;
return eof;
}
state.token = null;
state.channel = TokenChannels.Default;
state.tokenStartCharIndex = input.Index;
state.tokenStartCharPositionInLine = input.CharPositionInLine;
state.tokenStartLine = input.Line;
state.text = null;
try
{
int m = input.Mark();
state.backtracking=1;<! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if (state.failed)
{
input.Rewind(m);
input.Consume();<! advance one char and try again !>
}
else
{
Emit();
return state.token;
}
catch (RecognitionException re)
{
    // shouldn't happen in backtracking mode, but...
    ReportError(re);
    Recover(re);
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
    if (state.backtracking > 1)
    base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
    if (state.backtracking > 1)
    return base.AlreadyParsedRule(input, ruleIndex);

    return false;
}

actionGate() ::= "state.backtracking == 0"
filteringActionGate() ::= "state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="object") ::= <<
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
    <if(grammar.grammarIsRoot)>
    internal static readonly string[] tokenNames = new string[] {
        "\s\n\sv\n\si\n\svalid",
    "\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n\s\n\si\n"};
    <endif>
    <tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
        <if(grammar.delegates)>
        // delegates
    </if>
}
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<grammar.delegates:
  {g|private <g.recognizerName> <g:delegateName()>;}; separator="\n"
<endif>
<if(grammar.delegates)>
  // delegators
  <grammar.delegates:
    {g|private <g.recognizerName> <g:delegateName()>;}; separator="\n"
  <last(grammar.delegates):{g|private <g.recognizerName> gParent;}>}
<endif>

<if(grammar.delegates)>
  public override void SetState(RecognizerSharedState state)
  {
    base.SetState(state);
    <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">}
<endif>
<endif>

<if(TREE_PARSER)>
  public override void SetTreeNodeStream(ITreeNodeStream input)
  {
    base.SetTreeNodeStream(input);
    <grammar.delegates:{g|<g:delegateName()>.SetTreeNodeStream(input);}; separator="\n">}
<endif>
<endif>

<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>}
<@members()>

public override string[] TokenNames { get { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

<members>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

#region Rules
<rules; separator="\n">
#endregion Rules

<if(grammar.delegatedRules)>
  <!-- generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
#endif Delegated rules
<grammar.delegatedRules:{ruleDescriptor}
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)>
<ruleDescriptor.name; format="id">(<ruleDescriptor.parameterScope:parameterScope();> \!) <throws

RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name;
format="id">(<if(ruleDescriptor.parameterScope)<ruleDescriptor.parameterScope.attributes:{a|<a.name;
format="id">}; separator=", "><endif>; }); separator="\n">
#endif Delegated rules
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs>
#region DFA
<cyclicDFAs:{dfa | private DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs),
    SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
}
<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !> #endregion DFA
<endif>

<if(bitsets>
#region Follow sets
private static class Follow
{
    <bitsets:{it|<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="\n">
} #endregion Follow sets
<endif>

@end genericParser.members() ::= <<
#if ANTLR_DEBUG
private static readonly bool[] decisionCanBacktrack =
new bool[]
{
false, // invalid decision
<grammar.decisions:{d | <d.dfa.hasSynPred>; wrap="\n", separator=", ">
};

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private static readonly bool[] decisionCanBacktrack = new bool[0];
#endif

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()> }]>)
: this(input, new RecognizerSharedState<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()> }]>)
{
}
</actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input,
RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()> }]>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p:delegateName()> }>,
this);}; separator="\n"
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g | <g:delegateName()> = <g.delegator:delegateName()>.;}; separator="\n"
<endif>
<if(grammar.delegators)>
<last(grammar.delegators):{g|gParent = <g:delegateName()>.;}>
<endif>
<parserCtorBody()>
OnCreated();
}

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)<actions.(actionScope).modifier; null="public"><else>public</endif>
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
int>[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>.;}; separator="\n"
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
ASTLabelType="object",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser<br><endif> }, labelType="IToken",
   members={ <actions.parser.members> }) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>
>>

/** How to generate a tree parser; same as parser except the input<br>* stream is a different type.<br>*/<br>treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,<br   numRules, bitsets, filterMode, labelType={ <ASTLabelType> }, ASTLabelType="object",
   superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Tree.<br   if(filterMode)> <if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif>},<br   members={ <actions.treeparser.members> }) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary<br>* rules created for syntactic predicates. As they never have return values<br>* nor parameters etc... just give simplest possible method. Don't do<br>* any of the normal memoization stuff in here either; it's a waste.<br>* As predicates cannot be inlined into the invoking rule, they need to<br>* be in a rule by themselves.<br>*/<br>synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>_fragment() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>_fragment() {}

// $ANTLR start <ruleName>
<rulename>._fragment(<ruleDescriptor.parameterScope:parameterScope()>)
{
   <ruleLabelDefs()>
   EnterRule_<ruleName>_fragment();
EnterRule("<ruleName>._fragment", <ruleDescriptor.index>);
TraceIn("<ruleName>._fragment", <ruleDescriptor.index>);
   try
   {
   <block>
   }
finally
   {
   TraceOut("<ruleName>._fragment", <ruleDescriptor.index>);
   LeaveRule("<ruleName>._fragment", <ruleDescriptor.index>);
   LeaveRule_<ruleName>_fragment();
}
ruleMemoization(name) ::= <<
@if(memoize)>
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> } 
@endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)>if (state.failed) <returnFromRule()><endif>
*/
/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()> }<endif>
>>

ruleWrapperMap ::= [
  "bottomup":{<ruleWrapperBottomup()>},
  "topdown":{<ruleWrapperTopdown()>},
  default:""
]

ruleWrapperBottomup() ::= <<
  <if(TREE_PARSER && filterMode)>
  protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { return bottomup(); }  
  <endif>
>>

ruleWrapperTopdown() ::= <<
  <if(TREE_PARSER && filterMode)>
  protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { return topdow(); }  
  <endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
  <ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
  <returnScope(ruleDescriptor.returnScope)>
  [Conditional("ANTLR_TRACE")]
  protected virtual void EnterRule_<ruleName>() {}  
  [Conditional("ANTLR_TRACE")]
  protected virtual void LeaveRule_<ruleName>() {}  
  <ruleWrapperMap.(ruleName)>
  // $ANTLR start "<ruleName>"
  // <fileName>:<description>
  [GrammarRule("<ruleName>")]
  <ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName;format="id">(<ruleDescriptor.parameterScope:parameterScope()>)
  {
    EnterRule_<ruleName>();
    EnterRule("<ruleName>", <ruleDescriptor.index>);
    TraceIn("<ruleName>", <ruleDescriptor.index>);
    <ruleScopeSetUp()>
    <ruleDeclarations()>
  }"
try { DebugEnterRule(GrammarFileName, "<ruleName>");
  DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
  <@preamble()>
  try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <@ruleDescriptor.actions.after:execAction()>
    } 
    <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><
    >}
    <else>
    <if(!emptyRule)
    <if(actions.(actionScope).rulecatch)
    <actions.(actionScope).rulecatch>
    <else>
    catch (RecognitionException re) {
      ReportError(re);
      Recover(input,re);
      <@setErrorReturnValue()>
    } 
    <endif>
    <endif>
    <endif>
    finally {
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    LeaveRule_.<ruleName>();
      <memoize()>
    <ruleScopeCleanUp()>
    <finally>
  } 
  DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); } 
<@postamble()>
<returnFromRule()><
}

  // imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
  <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
  <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
// imported grammars need to have public return scopes
returnScopeModifier(grammar, ruleDescriptor) ::= <<
  <if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
  null="private"><else>public<endif>
  >>

catch(decl, action) ::= <<
catch (<e.decl>)
  {
  <e.action>
  }
>>

ruleDeclarations() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)
  <returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
  retval.Start = (<labelType>)input.LT(1);
  <elseif(ruleDescriptor.returnScope)
  <ruleDescriptor.returnScope.attributes:{ a |
  <a.type> <a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; 
  }>
  <endif>
  <if(memoize)>
  int <ruleDescriptor.name>_StartIndex = input.Index;
  <endif>
>>

ruleScopeSetUp() ::= <<
  <ruleDescriptor.useScopes:{it|<it>_stack.Push(new <it>_scope());<it>_scopeInit(<it>_stack.Peek());}; separator="\n">
  <ruleDescriptor.ruleScope:{it|<it.name>_stack.Push(new 
  <it.name>_scope());<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
  <ruleDescriptor.useScopes:{it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
  <ruleDescriptor.ruleScope:{it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
  <|ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wild
  cardTreeListLabels|
  :{|it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n">
lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{[it]<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
:{[it]int <it.label.text> = 0;}; separator="\n"
>
<ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{[it]<labelType> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.charListLabels:[it]List<int> list_<it.label.text> = null;}; separator="\n"
>
returnFromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
<!> retval
<endif>
<endif>
<endif>
<endif>
;
%
>
ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMoreReturnValues)> 
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);
<endif>
<endif>
memoize() ::= <<
@if(memoize)
@if(backtracking)
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
@endif
@endif
>>
/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>() {}

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void m_<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
  EnterRule_<ruleName>();
  EnterRule("<ruleName>", <ruleDescriptor.index>);
  TraceIn("<ruleName>", <ruleDescriptor.index>);
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try
  {
    <if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <else>
    int _type = <ruleName>;
    int _channel = DefaultTokenChannel;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    state.type = _type;
    state.channel = _channel;
  }
<ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule_.<ruleName>();
<ruleScopeCleanUp()>
<memoize()>
}
}
// $ANTLR end "<ruleName>"
>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override void mTokens()
{
<block>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<bruleName>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>); }
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]); }
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>
/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int alt<decisionNumber>=<maxAlt>;
  <decls>
  @@predecision()
  try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
  <decision>
  } finally { DebugExitDecision(<decisionNumber>); }
  @@postdecision()
  switch (alt<decisionNumber>)
  {
  <alts:{a|<altSwitchCase(i,a)>}}
  }
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  @@prealt()
  DebugEnterAlt(1);
  <alts>
  @@postalt()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  @@prealt()
  DebugEnterAlt(1);
  <alts>
  @@postalt()
>>

/** A (...)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  int cnt<decisionNumber>=0;
  <decls>
  @@preloop()
  try { DebugEnterSubRule(<decisionNumber>);
  while (true)
  {
  int alt<decisionNumber>=<maxAlt>;
  @@predecision()
  try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]));
<decision>
} finally { DebugExitDecision(<decisionNumber>); }<@postdecision()>
switch (alt<decisionNumber> )
{
<alts:{a|<altSwitchCase(i,a)>}> default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
DebugRecognitionException(eee<decisionNumber>);
<@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;
loop<decisionNumber>:
;
} finally { DebugExitSubRule(<decisionNumber>); }<@postloop()>
>>&gt;

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=<<
  // <fileName>:<description>
  <decls>
  <@preloop()>
  try { DebugEnterSubRule(<decisionNumber>);)
  while (true)
  {
  int alt<decisionNumber>==<maxAlt>;
  <@predecision()>
  try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
  <decision>
  } finally { DebugExitDecision(<decisionNumber>); }<@postdecision()>
  switch ( alt<decisionNumber> )
  {
  <alts:{a|<altSwitchCase(i,a)>}> default:
  goto loop<decisionNumber>;
  }
loop<decisionNumber>:
;
}

} finally { DebugExitSubRule(<decisionNumber>); }

<<@postloop()>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative. */
altswitchcase(altNum,alt) ::= <<
  case <altNum>:
    <<@prealt()>>
    DebugEnterAlt(<altNum>);
    <alt>
    break;
  >>

/** An alternative is just a list of elements; at outermost level */
alts(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
  // <fileName>:<description>
  {
    <<@declarations()>>
    <elements:element()>
    <rew>
    <<@cleanup()>>
  }
  >>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing. */

noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS
/** Dump the elements one per line */
element(it) ::= <%
  @prematch()>
  DebugLocation(<it.line>, <it.pos>);<
  <it.el><
>%>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
  if(label) <label>=(<labelType>)endif>Match(input,<token>,Follow.<token>_in_<ruleName><elementIndex>);
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  <tokenRef(...>)
  <listLabelElem(elem=label,elemType=labelType,...)>>
>>

listLabelElem(label(elem=elem,elemType=labelType,..):= <<
  if (list_<label>==null) list_<label>=new List\<<elemType; null={<labelType}>\}>();
  list_<label>.Add(<elem>);<
>>

/** match a character */
charRef(char,label) ::= <<
  if(label)
    <label> = input.LA(1);<
  endif>
  Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
  if(label)
    <label> = input.LA(1);<
  endif>
  MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
  if(label)
    <matchSetLabel()>
  endif>
  if (<s>)
    {input.Consume();
MismatchedSetException mse = new MismatchedSetException(null,input);
DebugRecognitionException(mse);
@if(LEXER)
Recover(mse);
throw mse;
@else
throw mse;
@!
</@

matchSetUnchecked(s,label,elementIndex,postmatchCode=false) ::= <%
@if(label)
<matchSetLabel()><n>
@if(postmatchCode)
<input.Consume();><n>
@if(postmatchCode)
<n>
@if(!LEXER)>state.errorRecovery=false;</ifen><if(backtracking)>state.failed=false;</ifen>%

matchSetLabel() ::= <%
@if(LEXER)
<label> = input.LA(1);
@else
<label> = (<labelType>)input.LT(1);
@end

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= << <matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)> >>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
  \if(label)
  int <label>Start = CharIndex;

  Match(<string>); \checkRuleBacktrackFailure()

  int <label>StartLine<elementIndex> = Line;

  int <label>StartCharPos<elementIndex> = CharPositionInLine;

  <label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);

  <label>.Line = <label>StartLine<elementIndex>;

  <label>.CharPositionInLine = <label>StartCharPos<elementIndex>;

  \else
  
  Match(<string>); \checkRuleBacktrackFailure()

  \endif

%

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
  \if(label)
  <label>=(<labelType>)input.LT(1);

  \endif

  MatchAny(input); \checkRuleBacktrackFailure()

>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
  wildcard(...) 
  | listLabelElem(elem=label,elemType=labelType,...)

>>

/** Match . wildcard in lexer */

wildcardChar(label, elementIndex) ::= <<
  \if(label)
  <label> = input.LA(1);

  \endif

  MatchAny(); \checkRuleBacktrackFailure()

>>

wildcardCharListLabel(label, elementIndex) ::= <<
  wildcardChar(...) 
  | listLabelElem(elem=label,elemType=labelType,...)

>>

/** Match a rule reference by invoking it possibly with arguments 
* and a return value or values. The 'rule' argument was the 
* target rule name, but now is type Rule, whose toString is 
* same: the rule name. Now though you can access full rule 
* descriptor stuff. 
*/

ruleRef(rule,label,elementIndex,args,scope) ::= <<
  PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);

  \if(label) <label>={<endif> \if(scope) <scope:delegateName>().\endif>}<rule.name; format="id">(<args;
/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem=label, elemType=[<ASTLabelType>],...>)
>>

/** A lexer rule reference.
 * 
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <%
@if(label>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
@if(scope)<!--scope:delegateName()-->.<endif>m<rule.name>(<args; separator="",">);
<checkRuleBacktrackFailure()><
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<
<label>.Line = <label>StartLine<elementIndex>;<
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
@else
@if(scope)<!--scope:delegateName()-->.<endif>m<rule.name>(<args; separator="",">);
<checkRuleBacktrackFailure()>
@endif
%

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>n
<listLabelElem(elem=label, elemType=labelType,...)>n
>>

/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <%
@if(label>
int <label>Start<elementIndex> = CharIndex;
int <label>StartLine<elementIndex> = Line;
int <label>StartCharPos<elementIndex> = CharPositionInLine;
Match(EOF); <checkRuleBacktrackFailure()><
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<
<label>.Line = <label>StartLine<elementIndex>;<
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
@else
Match(EOF); <checkRuleBacktrackFailure()>
@endif
%>
CharIndex-1);<
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>
int LA<decisionNumber>_<k> = input.LA(<k>);\n
<edges; separator="\nelse ">
<if((!isTrue.(last(edges).labelExpr)) && (!last(edges).predicates))>
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
<endif>
}
<endif>  
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);\n
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}
<endif>
<endif>
>>
/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;;"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)>&& (<predicates>)<endif>)
{
 <targetState>
}
>>

// F i x e d  D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
default:
@if(eotPredictsAlt)
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
@else
{
<rulbacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()> throw nvae;
}
@endif>
}@n
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
}@n
>>
dfaloopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
    <if(eotPredictsAlt)>
        default:
        alt<decisionNumber> = eotPredictsAlt;
        break; <\n>
    <endif>
} <\n>>

dfaEdgeSwitch(labels, targetState) ::= <<
    <labels:{it|case <it>:\}; separator="\n">
    {
        <targetState>
    }
    break;
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber, description) ::= <<
try
{
    alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
    throw;
}
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
    private const string DFA<dfa.decisionNumber>_eotS = "<dfa.javaCompressedEOT; wrap=""+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>_eofS = "<dfa.javaCompressedEOF; wrap=""+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>_minS = "<dfa.javaCompressedMin; wrap=""+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>_maxS = "<dfa.javaCompressedMax; wrap=""+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>_acceptS = "<dfa.javaCompressedAccept; wrap=""+\n\t\t"">";
    private const string DFA<dfa.decisionNumber>_specialS = "<dfa.javaCompressedSpecial; wrap=""+\n\t\t"">";
    private static readonly string[] DFA<dfa.decisionNumber>_transitionS = {
        "s|"+<"s; wrap=""+\n"">"};
    private static readonly short[] DFA<dfa.decisionNumber>_eot = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
    private static readonly short[] DFA<dfa.decisionNumber>_eof = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
    private static readonly char[] DFA<dfa.decisionNumber>_min = DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
    private static readonly char[] DFA<dfa.decisionNumber>_max = DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
    private static readonly short[] DFA<dfa.decisionNumber>_accept = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
    private static readonly short[] DFA<dfa.decisionNumber>_special = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
    private static readonly short[][] DFA<dfa.decisionNumber>_transition;
    static DFA<dfa.decisionNumber>()
    {
        int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
        DFA<dfa.decisionNumber>_transition = new short[numStates][];
        for ( int i=0; i < numStates; i++ )
        {
            DFA<dfa.decisionNumber>_transition[i] = DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
        }
    }

    public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
                                      SpecialStateTransitionHandler specialStateTransition<endif> )
    {
        if(dfa.specialStateSTs)
            : base(specialStateTransition)
    }
}
this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
DebugRecognitionException(nvae);
}
</n>
</if(dfa.specialStateSTs)>
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<! throws NoViableAltException!>
{
<if(LEXER)>
IIntStream input = _input;
<endif>
<if(PARSER)>
ITokenStream input = (ITokenStream)_input;
<endif>
<if(TREE_PARSER)>
ITreeNodeStream input = (ITreeNodeStream)_input;
<endif>
int _s = s;
s = -1;
<! pull these outside the switch cases to save space on locals !>
int LA<dfa.decisionNumber>_1 = input.LA(1);
int index<dfa.decisionNumber>_1 = input.Index;
switch (_s)
{
<dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">

default:
break;
}

if (s >= 0)
return s;

<if(backtracking>)
if (state.backtracking > 0) { state.failed=true; return -1; }
<endif>

NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input); dfa.Error(nvae);
throw nvae;
}
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
 |
<if(semPredState)>
<! get next lookahead symbol to test edges, then rewind !>
input.Rewind();
<endif>
| <edges; separator="\nelse ">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
|
break;
|
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((labelExpr)<if(predicates)> && (<predicates>)<endif>) { s = <targetStateNumber>; }
<\n
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "(\neck<\&<\&right>)"
orPredicates(operands) ::= "((operands; separator="||"))"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>._k==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=<% (LA<decisionNumber>._k<ge()> lower && LA<decisionNumber>._k<le()> upper) %>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>)<ge()> lower && input.LA(<k>)<le()> upper)"

le() ::= "\le"
ge() ::= "\ge"

setTest(ranges) ::= <<
<ranges; separator="||">
>>

// A T T R I B U T E S

attributeScope(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
protected sealed partial class <scope.name>._scope
{
<scope.attributes:{it|public <it.decl>;}; separator="\n">
}
<if(scope.actions.scopeinit)>
protected void <scope.name>._scopeInit( <scope.name>._scope scope )
{
<scope.actions.scopeinit>
}
<else>
protected virtual void <scope.name>._scopeInit( <scope.name>._scope scope ) {}
<endif>
<if(scope.actions.scopeafter)>

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protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
    <scope.actions.scopeafter>
}
</else>
protected virtual void <scope.name>_scopeAfter( <scope.name>_scope scope ) {}
</endif>
protected readonly ListStack\<<scope.name>_scope> <scope.name>_stack = new ListStack\<<scope.name>_scope>();
</endif>
</endif>
>>

globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

returnStructName(it) ::= "<it.name>_return"

returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
%>

/** Generate the C# type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
%>
delegateName(it) ::= <<
<if(it.label)><it.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "null".
 */
initValue(typeName) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
%
>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
<ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
{
<scope.attributes:{it|public <it.decl>;}; separator="\n">;
}@ruleReturnMembers()
}
@endif
>>

ruleReturnBaseType() ::= <%
<TREE_PARSER>Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
%
>

@returnScope.ruleReturnMembers() ::= <<
>>

parameterScope(scope) ::= <<
<scope.attributes:{it|<it.decl>}; separator=" ">
>>

parameterAttributeRef(attr) ::= <<
[attr.name; format="id"]
>>

parameterSetAttributeRef(attr,expr) ::= <<
<attr.name; format="id"> =<expr>;
>>

scopeAttributeRef(scope, attr, index, negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
  <else>
  <if(index)>
  <scope>_stack[<index>].<attr.name; format="id">
  <else>
  <scope>_stack.Peek().<attr.name; format="id">
  <endif>
  <endif>
  %>

scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= <%
  <if(negIndex)>
  <scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;
  <else>
  <if(index)>
  <scope>_stack[<index>].<attr.name; format="id"> = <expr>;
  <else>
  <scope>_stack.Peek().<attr.name; format="id"> = <expr>;
  <endif>
  <endif>
  %>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.Count>0 && $function::name.Equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
  (<scope>!=null?((<returnType(referencedRule)>)<scope>).<attr.name; format="id">:<initValue(attr.type)>)
  <else>
  <scope>
  <endif>
  %>

returnAttributeRef(ruleDescriptor, attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name; format="id">
  <else>
  <attr.name; format="id">
  <endif>
returnSetAttributeRef(ruleDescriptor, attr, expr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name; format="id"> =<expr>;
  <else>
    <attr.name; format="id"> =<expr>;
  <endif>
%

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope, attr) ::= "(scope)!.null?scope.Text,default(string)"
tokenLabelPropertyRef_type(scope, attr) ::= "(scope)!.null?scope.Type:0"
tokenLabelPropertyRef_line(scope, attr) ::= "(scope)!.null?scope.Line:0"
tokenLabelPropertyRef_pos(scope, attr) ::= "(scope)!.null?scope.CharPositionInLine:0"
tokenLabelPropertyRef_channel(scope, attr) ::= "(scope)!.null?scope.Channel:0"
tokenLabelPropertyRef_index(scope, attr) ::= "(scope)!.null?scope.TokenIndex:0"
tokenLabelPropertyRef_tree(scope, attr) ::= "scope_tree"
tokenLabelPropertyRef_int(scope, attr) ::= "(scope)!.null?int.Parse(scope.Text):0"

ruleLabelPropertyRef_start(scope, attr) ::= "(scope)!.null?((labelType))scope.Start,default(labelType)"
ruleLabelPropertyRef_stop(scope, attr) ::= "(scope)!.null?((labelType))scope.Stop,default(labelType)"
ruleLabelPropertyRef_tree(scope, attr) ::= "(scope)!.null?((ASTLabelType))scope.Tree,default(ASTLabelType)"
ruleLabelPropertyRef_text(scope, attr) ::= <%
  <if(TREE_PARSER)>
    (scope)!.null?input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(scope.Start),
      input.TreeAdaptor.GetTokenStopIndex(scope.Start));default(string)
  <else>
    (scope)!.null?input.ToString(scope.Start, scope.Stop);default(string)
  <endif>
%
ruleLabelPropertyRef_st(scope, attr) ::= "(scope)!.null?scope.Template:null"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabelRef(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope, attr) ::=
"(<scope>!null?<scope>.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>!null?<scope>.Line:0)"

lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>!null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>!null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!null?<scope>.Text:default(string))"

lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope>!null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "retval.Tree"
rulePropertyRef_text(scope,attr) ::= <%
  <if(TREE_PARSER)>
    input.TokenStream.ToString(
      input.TreeAdaptor.GetTokenStartIndex(retval.Start),
      input.TreeAdaptor.GetTokenStopIndex(retval.Start))
  <else>
    input.ToString(retval.Start,input.LT(-1))
  </endif>
%
rulePropertyRef_st(scope,attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule, everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
  if(!backtracking) {
    @indentedAction()
  } else {
    <action>
  }
%>

@execAction.indentedAction() ::= <<
  <action>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  public static readonly BitSet <name> = new BitSet(new ulong[]{<words64:{it|<it>UL};separator=",">});
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

isTrue ::= [
  "true" : true,
  default : false
]

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg

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/**
 * The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code.
 */

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> { 
  <actions.(actionScope).header>
  <@imports>
  import org.antlr.runtime.*;
  <if(TREE_PARSER)>
  import org.antlr.runtime.tree.*;
```
lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="Token",
    superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends <@end></grammar>(actionScope).superClass> <superClass>
    <@end> <@end> {<endif>
<tokens:{it |public static const <it.name>:int=<it.type>}; separator="\n">
<scopes:{it |<if(it.isDynamicGlobalScope)>globalAttributeScope(it)<@end> |<endif> }
<@end>
<@end> <<

// delegates
<grammar.delegates:
    {g|public var <g:delegateName()>:<g.recognizerName>}; separator="\n">
// delegators
<grammar.delegators:
    {g|public var <g:delegateName()>:<g.recognizerName>}; separator="\n">
<last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}> public function <grammar.recognizerName>(<grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>,
}>input:CharStream = null, state:RecognizerSharedState = null) {
    super(input, state);
    <cyclicDFAs:cyclicDFACtor()>
    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        this.state.ruleMemo = new Array(<numRules>+1);<\n> <! index from 1..n !>
    <endif>
    <endif>
    <grammar.directDelegates:
        {g|<g:delegateName()>: new <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, >
            this, input, this.state);}; separator="\n"}
    <grammar.delegators:
        {g|this.<g:delegateName()>: <g:delegateName>();}; separator="\n"}
    <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>}
    public override function get grammarFileName():String { return "<fileName>"; }
    <if(filterMode)>
    <filteringNextToken()>
    <endif>
    <rules; separator="\n\n">
/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override function nextToken():Token {
    while (true) {
        if (input.LA(1)==CharStreamConstants.EOF) {
            return TokenConstants.EOF_TOKEN;
        }
        this.state.token = null;
        this.state.channel = TokenConstants.DEFAULT_CHANNEL;
        this.state.tokenStartCharIndex = input.index;
        this.state.tokenStartCharPositionInLine = input.charPositionInLine;
        this.state.tokenStartLine = input.line;
        this.state.text = null;
        try {
            var m:int = input.mark();
            this.state.backtracking=1; <! means we won't throw slow exception !>
            this.state.failed=false;
            mTokens();
            this.state.backtracking=0;
            <! mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if (this.state.failed) {
                input.rewindTo(m);
                input.consume(); <! advance one char and try again !>
            } else {
                emit();
                return this.state.token;
            }
        } catch (re:RecognitionException) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
} >>
public override function memoize(input:IntStream,  
  ruleIndex:int,  
  ruleStartIndex:int):void  
  {
    if (this.state.backtracking>1) super.memoize(input, ruleIndex, ruleStartIndex);
  }

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean  
  {
    if (this.state.backtracking>1) return super.alreadyParsedRule(input, ruleIndex);
    return false;
  }

actionGate() ::= "this.state.backtracking==0"

filteringActionGate() ::= "this.state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,  
  bitsets, inputStreamType, superClass,  
  labelType, members, rewriteElementType,  
  filterMode, ASTLabelType="Object") ::= <<
  public class <grammar.recognizerName> extends  
  <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass  
  ><@end><endif> {
    <if(grammar.grammarIsRoot)>
      public static const tokenNames:Array = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=",”>
      ];
    </if>

    <tokens:{it |public static const <it.name>:int=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates: {g|public var <g:delegateName()>:<g.recognizerName>();}; separator="\n">

    // delegators
    <grammar.delegators:
      [g|public var <g:delegateName()>:<g.recognizerName>();]; separator="\n">

    <last(grammar.delegators):
      [g|public var gParent:<g.recognizerName>();]>

    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}>

    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    public function <grammar.recognizerName>()<grammar.delegators:{g|<g:delegateName()>:<g.recognizerName>},  
    ]>input:<inputStreamType>, state:RecognizerSharedState = null) {
super(input, state);
<parserCtorBody()>
<grammar.directDelegates:
  {g|<g:delegateName()>=new <g.recognizerName>({trunc(g.delegators):[p|<p:delegateName()>, }>, this, input, this.state);}; separator="\n">;
  <grammar.indirectDelegates:{g | <g:delegateName()>=<g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">;
  <last(grammar.delegators):{g|gParent=<g:delegateName();}>}
}@end

class Re natürlich 
@constructor()

public override function get tokenNames():Array { return <grammar.composite.rootGrammar.recognizerName>.tokenNames; }

grammar.delegators:
  {g|this.<g:delegateName()>=<g:delegateName();}; separator="\n";

members

grammar.delegators:
  {ruleDescriptor|public function <ruleDescriptor.name>({ruleDescriptor.parameterScope:parameterScope()}:<returnType()> { <if(ruleDescriptor.hasReturnValue)>return <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>({ruleDescriptor.parameterScope.attribut es:{a|<a.name>}; separator="","}; \}); separator="\n">;

cyclicDFAs:cyclicDFA()<! dump tables for all DFA !>

bitsets:{it | <bitset(name={FOLLOW_<it.inName><it.tokenIndex>}, words64=it.bits)}>}

parserCtorBody() ::= <<
  <if(memoize)>
    <if(grammar.grammarIsRoot)>
      this.state.ruleMemo = new Array(<length(grammar.allImportedRules)>+1);<\n> <! index from 1..n !>
    <endif>
  <endif>
  <grammar.delegators:
    {g|this.<g:delegateName()>=<g:delegateName();}; separator="\n">;

>}}
/** How to generate a tree parser; same as parser except the input stream is a different type.
* 
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, filterMode, labelType={ASTLabelType}, ASTLabelType="Object", superClass="TreeParser", members={actions.treeparser.members}) ::= <<
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, "TreeNodeStream", superClass, labelType, members, "Node", filterMode, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary rules created for syntactic predicates. As they never have return values nor parameters etc.... just give simplest possible method. Don't do any of the normal memoization stuff in here either; it's a waste. As predicates cannot be inlined into the invoking rule, they need to be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>):void {
    <ruleLabelDefs()>
    <if(trace)>
        traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
        try {
            <block>
        }
        finally {
            traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
        }
    <else>
        <block>
    <endif>
}
// $ANTLR end <ruleName>
>>
synpred(name) ::= <<
public final function <name>():Boolean {
    this.state.backtracking++;
    <@start()> 
    var start:int = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (re:RecognitionException) {
        trace("impossible: "+re);
    }
    var success:Boolean = !this.state.failed;
    input.rewindTo(start);
    <@stop()> 
    this.state.backtracking--;
    this.state.failed=false;
    return success;
} <\n> >> 

lexerSynpred(name) ::= << 
    <synpred(name)> >> 

ruleMemoization(name) ::= << 
    <if(memoize)> 
    if ( this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue>(); } 
    </if> 
    </if> >> 

/** How to test for failure and return from rule */ 
checkRuleBacktrackFailure() ::= << 
    <if(backtracking)> if (this.state.failed) return <ruleReturnValue>(); </if> 
    </if> >> 

/** This rule has failed, exit indicating failure during backtrack */ 
ruleBacktrackFailure() ::= << 
    <if(backtracking)> if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue>(); } </if> 
    </if> >> 

/** How to generate code for a rule. This includes any return type  
* data aggregates required for multiple return values. */ 
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= << 
    <ruleAttributeScope(scope=ruleDescriptor.ruleScope)> 
    // $ANTLR start <ruleName> 
    // <fileName>:<description>
    public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>):<returnType()> { 
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>); </if> 
    </if> 
}
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
%@preamble()
try {
  <ruleMemoization(name=ruleName)>
  <block>
  <ruleCleanUp()>
  <(ruleDescriptor.actions.after):execAction()>
  }
<if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>}
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (re:RecognitionException) {
    reportError(re);
    recoverStream(input,re);
    <%setErrorReturnValue()>
    }<\n>
<endif>
<endif>
<endif>
<endif>
finally {
  <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
  }
%@postamble()
  return <ruleReturnValue()>
}
// $ANTLR end <ruleName>
>>
catch(decl,action) ::= <<
catch (<e.decl>) { 
  <e.action>
}  
>>
ruleDeclarations() ::= <<
@if(ruleDescriptor.hasMultipleReturnValues)>
var retval:<returnType()> = new <returnType()>();
retval.start = input.LT(1);<\n>
<ruleDescriptor.returnScope.attributes:{ a | var <a.name>:<a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>; }>
<endif>
<if(memoize)>
var <ruleDescriptor.name>_StartIndex:int = input.index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.push(new Object());}; separator="\n">
<ruleDescriptor.ruleScope:{it [<it.name]_stack.push(new Object());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it [<it.name]_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
[[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels, ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it |var <it.label.text>:<labelType>=null;}; separator="\n" >
[[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
 :{it |var list_<it.label.text>:Array=null;}; separator="\n" >
[[ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n"]>
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
[[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels, ruleDescriptor.ruleLabels]
 :{it |var <it.label.text>:<labelType>=null;}; separator="\n" >
[[ruleDescriptor.charLabels:{it |var <it.label.text>:int;}; separator="\n"]>
<ruleDescriptor.tokenListLabels, ruleDescriptor.ruleListLabels]
 :{it |var list_<it.label.text>:Array=null;}; separator="\n" >
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>

...
lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
    // $ANTLR start <ruleName>
    public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>):void {
        if(trace)traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
        <ruleScopeSetUp()>
        <ruleDeclarations()>
        try {
            <if(nakedBlock)>
                <ruleMemoization(name=<ruleName>)>
                <lexerRuleLabelDefs()>
                <ruleDescriptor.actions.init>
                <block><
            <else>
                var _type:int = <ruleName>;
                var _channel:int = DEFAULT_TOKEN_CHANNEL;
                <ruleMemoization(name=<ruleName>)>
                <lexerRuleLabelDefs()>
                <ruleDescriptor.actions.init>
                <block>
                <ruleCleanUp()>
                %>
            ruleCleanUp() ::= <<
            if(ruleDescriptor.hasSingleReturnValue)>
            ruleDescriptor.singleValueReturnName
            <else>
            retval
            <endif>
            <endif>
            <endif>
            %>

            memoize() ::= <<
            if(memoize)
            if(backtracking)
            if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
            <endif>
            <endif>
            >>

            /** How to generate a rule in the lexer; naked blocks are used for
             * fragment rules.
             */
        
        $ANTLR start <ruleName>
        public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>):void {
            if(trace)traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
            <ruleScopeSetUp()>
            <ruleDeclarations()>
            try {
                <if(nakedBlock)>
                    <ruleMemoization(name=<ruleName>)>
                    <lexerRuleLabelDefs()>
                    <ruleDescriptor.actions.init>
                    <block><
                <else>
                    var _type:int = <ruleName>;
                    var _channel:int = DEFAULT_TOKEN_CHANNEL;
                    <ruleMemoization(name=<ruleName>)>
                    <lexerRuleLabelDefs()>
                    <ruleDescriptor.actions.init>
                    <block>
                    <ruleCleanUp()>
                    %>
                    ruleCleanUp() ::= <<
                    if(ruleDescriptor.hasMultipleReturnValue)>
                    if(!TREE_PARSER)>
                    retval.stop = input.LT(-1);<
                    <endif>
                    <endif>
                    <endif>
                    >>

                    memoize() ::= <<
                    if(memoize)
                    if(backtracking)
                    if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
                    <endif>
                    <endif>
                    >>
this.state.type = _type;
this.state.channel = _channel;
</(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeCleanUp()>
<memoize()>
}
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
public override function mTokens():void {
 <block><\n>
}
>>

// SUBRULES

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
 <alts:{a | <altSwitchCase(i, a)>}>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
 <alts:{a | <altSwitchCase(i, a)>}>
}
<@postbranch()>
>>
switch (alt<decisionNumber>) {
    <alts:{a | <altSwitchCase(i, a)>}>  
}  

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>  
  <alts>
  <@postalt()>  
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  // <fileName>:<description>
  <decls>
  <@prealt()>  
  <alts>
  <@postalt()>  
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  // <fileName>:<description>
  var cnt<decisionNumber>:int=0;
  <decls>
  <@preloop()>  
  loop<decisionNumber>: 
    do {
      var alt<decisionNumber>:int=<maxAlt>;  
      <@predecision()>  
      <decision>
      <@postdecision()>  
        switch (alt<decisionNumber>) {
          <alts:{a | <altSwitchCase(i, a)>}>  
          default :
            if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
            <ruleBacktrackFailure()>  
            throw new EarlyExitException(<decisionNumber>, input);
            <!-- Need to add support for earlyExitException debug hook -->
          }
        cnt<decisionNumber>++;
    } while (true);
  <@postloop()>  
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
   // <fileName>:<description>
   <decls>
   <@preloop()>
   loop<decisionNumber>:
   do {
      var alt<decisionNumber>:int=<maxAlt>;
      <@predecision()>
      <decision>
      <@postdecision()>
      switch (alt<decisionNumber>) { } else default :
      break loop<decisionNumber>;
   } while (true);
   <@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation *
so we can just use the normal block template */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative *
number. A DFA predicts the alternative and then a simple switch *
does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum, alt) ::= <<
case <altNum> :
   <@prealt()>
   <alt>
   break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
   // <fileName>:<description>
   |
   <@declarations()>

---
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/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el>\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<labelType>(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)>)<endif>; <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new Array();
list_<label>.push(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::=
  <<
  <if(label)>
  <if(LEXER)>
  <label>= input.LA(1);<\n>
  <else>
  <label>=<labelType>(input.LT(1));<\n>
  <endif>
  <endif>
  if ( <s> ) {
    input.consume();
    <postmatchCode>
    <if(!LEXER)>
      this.state.errorRecovery=false;
    <endif>
    <if(!backtracking)>this.state.failed=false;<endif>
  }
  else {
    <ruleBacktrackFailure()>
    <@mismatchedSetException()>
    <if(LEXER)>
      throw recover(new MismatchedSetException(null,input));<\n>
    <else>
      throw new MismatchedSetException(null,input);
    </if>
    <! use following code to make it recover inline; remove throw mse;>
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    </!
    <endif>
  }
  </!
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
  <<
  <matchSet(...)>
  <listLabel(label, label)>
  </!
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::=
  <<
  <if(label)>
  var <label>Start:int = charIndex;
  matchString(<string>); <checkRuleBacktrackFailure()>
  var <label>StartLine<elementIndex>:int = line;
  </!
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
 matchString(<string>); <checkRuleBacktrackFailure>()
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=labelType(input.LT(1));</label>
<endif>
matchAny(input); <checkRuleBacktrackFailure>()
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(…)>
<label>listLabel(label, label)>
>>

/** Match : wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);</label>
<endif>
matchAny(); <checkRuleBacktrackFailure>()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<label>listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The ‘rule’ argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 * * GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
 * * See: https://bugs.adobe.com/jira/browse/ASC-3625
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)> <label>=<endif><if(scope)> <scope:delegateName>(); <endif> <rule.name>(<args: separator=" ");</label>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>
/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
match(EOF); <checkRuleBacktrackFailure()>
var <label>:<labelType> = CommonToken.createFromStream(input, EOF,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);

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<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
match(EOF); <checkRuleBacktrackFailure()>
@endif>
>>

// used for left-recursive rules
recRuleDefArg() ::= "var <recRuleArg()>:int"
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> <= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=<$src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( input.LA(1)==TokenConstants.DOWN ) {
      matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
      <children:element()>
      matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
    }
  </if(nullableChildList)>
  matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>
  matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
@endif>
>>

/** Every predicate is used as a validating predicate (even when it is
*  also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (!<evalPredicate(pred,description)>) {
  <ruleBacktrackFailure()>
  throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// Fixed DFA (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  var LA<decisionNumber>_stateNumber:int = input.LA(<k>);
  <edges; separator="\nelse ">
else {
  var LA=;
### DFA States

**DFA Optional Block State**

```plaintext
var LA<decisionNumber><stateNumber>:int = input.LA(<k>); <edges; separator="\nelse ">
```

**DFA Loopback State**

```plaintext
var LA<decisionNumber><stateNumber>:int = input.LA(<k>); <edges; separator="\nelse ">
```

**DFA Accept State**

```plaintext
alt<decisionNumber><eotPredictsAlt>;<endif>
```

**DFA Edge**

```plaintext
dfaEdge(labelExpr, targetState, predicates) ::= <<
```
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {
  <targetState>
}

>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */

dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ( input.LA(<k>) ) {
  <edges; separator="\n">}
>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ( input.LA(<k>) ) {
  <edges; separator="\n">}
>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  switch ( input.LA(<k>) ) {
  <edges; separator="\n">}
>

dfaEdgeSwitch(labels, targetState) ::= <<
  <labels:{it |case <it>:}; separator="\n">}
  <targetState>
  }
  break;
>

}}
// C y c l i c  D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

cyclicDFACtor(dfa) ::= <<
dfa<decisionNumber> = new DFA(this, <dfa.description>,
   "<dfa.description>",
   DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
   DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
   DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
   DFA<dfa.decisionNumber>_specialStateTransition<endif>);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
private const DFA<dfa.decisionNumber>_eot:Array =
   DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap=""\n   \"\n"">);
private const DFA<dfa.decisionNumber>_eof:Array =
   DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap=""\n   \"\n"">);
private const DFA<dfa.decisionNumber>_min:Array =
   DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap=""\n   \"\n"">", true);
private const DFA<dfa.decisionNumber>_max:Array =
   DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap=""\n   \"\n"">", true);
private const DFA<dfa.decisionNumber>_accept:Array =
   DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap=""\n   \"\n"">);
private const DFA<dfa.decisionNumber>_special:Array =
   DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap=""\n   \"\n"">);
private const DFA<dfa.decisionNumber>_transition:Array = [
   <dfa.javaCompressedTransition:{s|DFA.unpackEncodedString("<s; wrap=""\n   \"\n"">"})}; separator="",
];
<if(dfa.specialStateSTs)>
   private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:IntStream):int {
```java
// var input: IntStream = _input;
// var input: TokenStream = TokenStream(_input);
var input: TreeNodeStream = TreeNodeStream(_input);

void switch ( s ) {
    var _s:int = s;
    switch ( s ) {
        case <i0> : <! compressed special state numbers 0..n-1 !>
        
    }
}

/** A state in a cyclic DFA; it's a special state and part of a big switch on
*  state.
*/
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
    var LA<decisionNumber>_<stateNumber>: int = input.LA(1);
    var index<decisionNumber>_<stateNumber>: int = input.index;
    input.rewind();
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    input.seek(index<decisionNumber>_<stateNumber>);
    </if>
    s = -1;
    edges; separator="nelse "
    <if(semPredState)> <! return input cursor to state before we rewound !>
    input.seek(index<decisionNumber>_<stateNumber>);
    </if>
    if ( s>=0 ) return s;
    break;
}}

/** Just like a fixed DFA edge, test the lookahead and indicate what
*  state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
```

- `<if(Lexer)> var input: IntStream = _input; <endif>`
- `<if(Parser)> var input: TokenStream = TokenStream(_input); <endif>`
- `<if(TreeParser)> var input: TreeNodeStream = TreeNodeStream(_input); <endif>`
- `<var _s:int = s; switch ( s ) {<dfa.specialStateSTs:{state | case <i0> : <! compressed special state numbers 0..n-1 !> <state>}; separator="\n">}
- `<if(backtracking)> if (this.state.backtracking>0) {this.state.failed=true; return -1;}<\n>`
- `<endif>
- `throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input)); }<\n>`
- `<endif>`

protected var dfa<dfa.decisionNumber>:DFA; // initialized in constructor

```
if ( ((labelExpr)) if((predicates) & (predicates)) endif) { s = <targetStateNumber>; }

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>; 
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left>&&<right>)"

orPredicates(operands) ::= "(<operands; separator="||">)"

notPredicate(pred) ::= "!(<evalPredicate(pred,{}>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>=<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lowerAsInt> & LA<decisionNumber>_<stateNumber> <= <upperAsInt>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >= <lowerAsInt> & input.LA(<k>) <= <upperAsInt>)"

setTest(ranges) ::= <<
<ranges; separator="||">
>>

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
;if(scope.attributes)

protected var <scope.name>._stack:Array = new Array();

<endif>

Open Source Used In Crosswork Common EMS Services 4.0.0  7669
ruleAttributeScope(scope) ::= «
  <if(scope.attributes)>
  protected var <scope.name>._stack:Array = new Array();
  <endif>
«

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= «
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <returnStructName()>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
«

/** Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= «
  <if(referencedRule.hasMultipleReturnValues)>
  <returnStructName()>
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnType>
  <else>
  void
  <endif>
  <endif>
«

delegateName(d) ::= «
  <if(d.label)><d.label><else>g<d.name><endif>
«

/** Using a type to init value map, try to init a type; if not in table must be an object, default value is "null". */
initValue(typeName) ::= «
  <asTypeInitMap.(typeName)>
«
/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
  var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
  <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
>>

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
    <scope.attributes:{it |public <it.decl>;}; separator="\n">
  </ruleReturnMembers()>
  <endif>
>>

parameterScope(scope) ::= <<
  <scope.attributes:{it |<it.name>:<it.type>}; separator=",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
  <if(negIndex)>
  <scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
  <else>
  <if(index)>
  <scope>_stack[<index>].<attr.name>
  <else>
  <scope>_stack[<scope>_stack.length-1].<attr.name>
  <endif>
  <endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
  <if(negIndex)>
  <scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>);
  <else>
  <if(index)>
  <scope>_stack[<index>].<attr.name> =<expr>;
  <else>
  <scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
  <endif>
  <endif>
>>
/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like \{$function.size() > 0 \&\& $function::name.equals("foo")\}?
*/
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
  <if(referencedRule.hasMultipleReturnValues>>
    (<scope>!null?<scope>.values.<attr.name>:<initValue(attr.type)>)
  <else>
    <scope>
  <endif>
<<
returnAttributeRef(ruleDescriptor,attr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues>)
    retval.values.<attr.name>
  <else>
    <attr.name>
  <endif>
<>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues>)
    retval.values.<attr.name> =<expr>;
  <else>
    <attr.name> =<expr>;
  <endif>
<<

/** How to translate $tokenLabel$ */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID \{ids\} or e+=expr \{e\} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!null?<scope>.text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!null?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!null?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!null?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!null?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!null?<scope>.tokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?<labelType>(<scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?<labelType>(<scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?<ASTLabelType>(<scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
(if(TREE_PARSER>)
(<scope>!=null?(input.tokenStream.toStringWithRange(
    input.treeAdaptor.getTokenStartIndex(<scope>.start),
    input.treeAdaptor.getTokenStopIndex(<scope>.start))):null)
(else>
(<scope>!=null?input.toStringWithTokenRange(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?><scope>.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?><scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?><scope>.lien:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?><scope>.charPositionInLine:0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?><scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?><scope>.tokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?><scope>.text:null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int(<scope>.text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
(if(TREE_PARSER>)
input.tokenStream.toStringWithRange(
    input.treeAdaptor.getTokenStartIndex(retval.start),
    input.treeAdaptor.getTokenStopIndex(retval.start))
(else>
input.toStringWithTokenRange(retval.start,input.LT(-1))
<endif>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
    if ( <actions.(actionScope).synpredgate> ) {
      <action>
    } else {
      <action>
  <endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  public static const <name>:BitSet = new BitSet([<words64:{it |<it>};separator=", "]));
>>

codeFileExtension() ::= ".as"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
  * /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg
No license file was found, but licenses were detected in source scan.
/*
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

group Perl5;

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/

outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::= <<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

@end imports>
@if(TREE_PARSER>
@endif>
package <name>;
use Carp;
use English qw( -no_match_vars ) ;
use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

use Moose;
extends 'ANTLR::Runtime::Lexer';

Readonly my $HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN;
sub HIDDEN { $HIDDEN }

use constant {
    <tokens:{ <it.name> => <it.type>, }; separator="\n">;
    <scopes:{<if(it.isDynamicGlobalScope)<globalAttributeScope(scope=it)><endif>}}>
    <actions.lexer.members>

    sub BUILD {
        my ($self, $arg_ref) = @_;

        $self->init_dfas();
    }

    sub get_grammar_file_name {
        return "<fileName>";
    }

    <if(filterMode)>
    <filteringNextToken()>
    <endif>
    <rules; separator="\n\n">
sub init_dfas {
    my ($self) = @_;

    <cyclicDFAs:{dfa | $self->dfa<dfa.decisionNumber>(<name>::DFA<dfa.decisionNumber>->new({ recognizer => $self })); separator="\n"> return;
}

perlTypeInitMap ::= [
    "$" : "undef",
    "@" : "()",
    "%" : "()",
    default : "undef"
]

/** A override of Lexer.nextToken() that backtracks over mTokens() looking * for matches. No error can be generated upon error; just rewind, consume * a token and then try again. backtracking needs to be set as well. * Make rule memoization happen only at levels above 1 as we start mTokens * at backtracking==1. */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        token = null;
        channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
        text = null;
    }
    return null;
}
>>
try {
    int m = input.mark();
    backtracking=1; <! means we won't throw slow exception !>
    failed=false;
    mTokens();
    backtracking=0;
    <! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( failed ) {
        input.rewind(m);
        input.consume(); <! advance one char and try again !>
    } else {
        emit();
        return token;
    }
}
} catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}

public void memoize(IntStream input,
        int ruleIndex,
        int ruleStartIndex)
{
    if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
    return false;
}
} >>

actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
        bitsets, inputStreamType, superClass, filterMode,
        ASTLabelType="Object", labelType, members) ::= <<
        package <name>;

use English qw( -no_match_vars ) ;
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

use Moose;

extends ' @@superClassName> <superClass><@end>';

Readonly my $token_names => [ "\<invalid>", "\EOR", "\<DOWN>", "\UP", $token_names; separator=" ", "];

use constant {
<tokens: { <it.name> => <it.type>, }; separator="\n">}

<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
                      words64=it.bits)>}

<scopes: { <if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif> |}
<@members>

<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
    my ($self, $arg_ref) = @_;

    <if(backtracking)>
        $self->state->rule_memo( {} );
    <endif>

    }
<@end>

sub get_token_names {
    return $token_names;
}

sub get_grammar_file_name {
    return "<fileName>";
}
<members>
<rules; separator="\n\n">}

<synpreds:{p | <synpred(p)>}>

Open Source Used In Crosswork Common EMS Services 4.0.0 7679
<cyclicDFAs: {dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>->new($self);}>
<separator="n">
<cyclicDFAs: cyclicDFA()>
<! dump tables for all DFA !>

no Moose;
__PACKAGE__->meta->make_immutable();
1;
__END__
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser", members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
<if(trace)>
$self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
 eval {
   <block>
   };
$self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
if ($EVAL_ERROR) {
   croak $EVAL_ERROR;
}
$else

"}
synpred(name) ::= <<
public final boolean <name>() {
    backtracking++;
    #@start()
    int start = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (RecognitionException re) {
        System.err.println("impossible: "+re);
    }
    boolean success = !failed;
    input.rewind(start);
    #@stop()
    backtracking--;
    failed=false;
    return success;
}"
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
@if(memoize)
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index>) ) { return <ruleReturnValue>(); }
@endif
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
@if(backtracking)
if ($self->state->failed) {
    return <ruleReturnValue>();
}
@endif
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
@if(backtracking)if (backtracking>0) { failed=true; return <ruleReturnValue>(); }@endif
>>
How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
 */

rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
    my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_;
    $if(trace) $self->traceIn("<ruleName>", <ruleDescriptor.index>); $endif
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    eval {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
    }
    $if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><
    >}
    $else>
    $if(!emptyRule)>
    $if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
    $else>
    my $exception = $EVAL_ERROR;
    if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
        $self->report_error($exception);
        $self->recover($self->input, $exception);
        $exception = undef;
    }
    }<in>
    $else>
    $endif>
    <endif>
    <endif>
    <endif>
    <if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>); $endif
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    if ($exception) {
        croak $exception;
        #$exception->rethrow();
    }
ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
$<ruleDescriptor.singleValueReturnName>
<else>
$retval
<endif>
<endif>
<endif>
>>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
$retval->set_stop($self->input->LT(-1));
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); } 
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
*  fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)->

my ($self) = @_;
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleDeclarations()>
eval {
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><
    <else>
    my $_type = <ruleName>;
    my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    $self->state->type($_type);
    $self->state->channel($_channel);
    <(ruleDescriptor.actions.after):execAction()>
    <endif>
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>

    if ($EVAL_ERROR) {
        croak $EVAL_ERROR;
    }
}
# $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule 
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
    my ($self) = @_;
    <block><
}
>>

// S U B R U L E S  

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
>>
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch ($alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch ($alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>::<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>::<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>::<description>
my $cnt<decisionNumber> = 0;
<decls>
<@preloop()>

LOOP<decisionNumber>:
while (1) {
    my $alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch ($alt<decisionNumber>) {
        <alts:altSwitchCase()>
    } else {
        if ( $cnt<decisionNumber> >= 1 ) { last LOOP<decisionNumber> }
        <ruleBacktrackFailure()>
        my $eee =
            ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
        <@earlyExitException()>
        croak $eee;
    }
    ++$cnt<decisionNumber>;
}
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>:<description>
    <decls>
    <@preloop()>
    LOOP<decisionNumber>:
    while (1) {
        my $alt<decisionNumber> = <maxAlt>;
        <@predecision()>
        <decision>
        <@postdecision()>
        switch ($alt<decisionNumber>) {
            <alts:altSwitchCase()>
        } else { last LOOP<decisionNumber> }
    }
    <@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation */
* so we can just use the normal block template
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase() ::= <<
case <i>
    <@prealt()>
    <it>
]}
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
    # <fileName>:<description>
    {
        <@declarations()>
        <elements:element()>
        <rew>
        <@cleanup()>
    }
>>

/** What to emit when there is no rewrite. For auto build mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element() ::= <<
    <@prematch()>
    <it.el><
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
    <if(label)>$<label> =<endif>$self->match($self->input, <token>, $FOLLOW_<token>_in_<ruleName><elementIndex>);
    <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)> 
<listLabel(elem=label,...)> 
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n
<endif>
$self->match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n
<endif>
$self->match_range(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= $self->input->LA(1);<\n
<else>
<label>=(<labelType>)input.LT(1);<\n
<endif>
<endif>
if ( <s> ) {
    $self->input->consume();
    <postmatchCode>
    <if(!LEXER)>
        $self->state->error_recovery(0);
    <endif>
    <if(backtracking)>failed=false;<endif>
} else {
    <ruleBacktrackFailure()>
    my $mse = ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
    <@MismatchedSetException()>
}
extern "C"
{
    
    $self->recover($mse);
    $mse->throw();

    $mse->throw();
    <! use following code to make it recover inline; remove throw mse;
    $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
    ![endif]
} <\n>

matchRuleBlockSet := matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
    <matchSet(...)>
    <listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
    <if(label)>
        int <label>Start = getCharIndex();
        $self->match(<string>); <checkRuleBacktrackFailure()>
        <labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
        Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);
    <else>
        $self->match(<string>); <checkRuleBacktrackFailure()><\n>
        <endif>
    >>

wildcard(label,elementIndex) ::= <<
    <if(label)>
        <label>=(<labelType>)input.LT(1);<\n>
    <endif>
    matchAny(input); <checkRuleBacktrackFailure()><\n>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
    <wildcard(...)>
    <listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
    <if(label)>
    <label> = $self->input->LA(1);<\n>
    <endif>
>>
matchAny(); <checkRuleBacktrackFailure()>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)> >>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values.
*/
ruleRef(rule, label, elementIndex, args, scope) ::= <<
$self->push_follow($FOLLOW_<rule.name>._in_<ruleName><elementIndex>);
;if(label)
$<label> = $self-><rule.name>(<args; separator="", ">);
#else
$self-><rule.name>(<args; separator="", ">);
#endif
$self->state->_fsp($self->state->_fsp - 1);
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(...)>  
<listLabel(elem=label,...)> >>

/** A lexer rule reference.

* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
;if(label)
int <label>Start<elementIndex> = getCharIndex();
$self->m_<rule>(<args; separator="", ">); <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
#else
$self->m_<rule.name>(<args; separator="", ">); <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= <<
<lexerRuleRef(...)>
/** EOF in the lexer */
lexerMatchEOF(label, elementIndex) ::= <<
  <if(label)>
    int <label>Start<elementIndex> = getCharIndex();
    match(EOF); <checkRuleBacktrackFailure()>
    <labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
    <label>Start<elementIndex>, getCharIndex()-1);
  <else>
    match(EOF); <checkRuleBacktrackFailure()> 
  <endif>
>>
/** match ^((root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
   enclosingTreeLevel, treeLevel) ::= <<
  <root:element()>
  <actionsAfterRoot:element()>
  <if(nullableChildList)>
    if ( input.LA(1)==Token.DOWN ) {
      match(input, Token.DOWN, null); <checkRuleBacktrackFailure()> 
      <children:element()>
      match(input, Token.UP, null); <checkRuleBacktrackFailure()> 
    } 
  <else>
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()> 
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()> 
  </endif>
>>
/** Every predicate is used as a validating predicate (even when it is 
* also hoisted into a prediction expression). */
validateSemanticPredicate(pred, description) ::= <<
  if ( !(evalPredicate(...)) ) { 
    <ruleBacktrackFailure()> 
    throw new FailedPredicateException(input, "<ruleName>", "<description>"); 
  }
>>
// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
  my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);
  <edges: separator="\n"}
else {
  <if(eotPredictsAlt)>
    $alt<decisionNumber> = <eotPredictsAlt>;
  <else>
    <ruleBacktrackFailure()>
    my $nva = ANTLR::Runtime::NoViableAltException->new({
      grammar_decision_description => "<description>",
      decision_number => <decisionNumber>,
      state_number => <stateNumber>,
      input => $self->input,
    });<

    <@noViableAltException()>
    croak $nva;<\n>
  <endif>
}</n>
}</n>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
  <edges; separator="\n">
</n>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
  my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<
  <edges; separator="\n">
</n>
/** An accept state indicates a unique alternative has been predicted */
DFAAcceptState(alt) ::= "$alt<decisionNumber> = <alt>;

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
DFAEdge(labelExpr, targetState, predicates) ::= <<if ( (<labelExpr>) && (<predicates>) ) {
  <targetState>
}>>

// Fixed DFA (switch case)
/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
DFASwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<switch ( $self->input->LA(<k>) )) {
  <edges; separator="\n">;
  else {
    $alt<decisionNumber> = <eotPredictsAlt>;<
    my $nvae = ANTLR::Runtime::NoViableAltException->new({
      grammar_decision_description => "<description>",
      decision_number => <decisionNumber>,
      state_number => <stateNumber>,
      input => $self->input,
    });<\n>
    @noViableAltException();
    croak $nvae;<\n>;
    <endif>
  }
}<<\n>>

DFAOptionalBlockStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<switch ( $self->input->LA(<k>) )) {
  <edges; separator="\n">;
}<<\n>>

DFALoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<switch ( $self->input->LA(<k>) )) {

<edges; separator="\n">\n<if(eotPredictsAlt)>

else { $alt<decisionNumber> = <eotPredictsAlt> }\n<endif>
</edges>

dfaEdgeSwitch(labels, targetState) ::= <<
case [ <labels: { <it> }; separator="","> ] { <targetState> }
>>

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used *
* in the rule to predict an alt just like the fixed DFA case.
* The <name> attribute is inherited via the parser, lexer, ...
*/
dfaDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>->predict($self->input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values. *
* Can’t use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we’re stuck with this *
* encode/decode approach. See analysis and runtime DFA for *
* the encoding methods. */
cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([ <dfa.javaCompressedEOT; separator="","> ]);
Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA->unpack_rle([ <dfa.javaCompressedEOF; separator="","> ]);
Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA->unpack_rle([ <dfa.javaCompressedMin; separator="","> ]);
Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA->unpack_rle([ <dfa.javaCompressedMax; separator="","> ]);
Readonly my $DFA<dfa.decisionNumber>_accept => ANTLR::Runtime::DFA->unpack_rle([ <dfa.javaCompressedAccept; separator="","> ]);
Readonly my $DFA<dfa.decisionNumber>_special => ANTLR::Runtime::DFA->unpack_rle([ <dfa.javaCompressedSpecial; separator="","> ]);
Readonly my $DFA<dfa.decisionNumber>._transition => [ <dfa.javaCompressedTransition: [s:ANTLR::Runtime::DFA->unpack_rle([ <s; separator="","> ])); separator="","> ]];

} package <name>::DFA<dfa.decisionNumber>;
use ANTLR::Runtime::Class;
use strict;
use warnings;

extends 'ANTLR::Runtime::DFA';

sub BUILD {
  my $self = shift;
  my $param_ref = __PACKAGE__->unpack_params(@_, {
    spec => [
      { name => 'recognizer',
        isa => 'ANTLR::Runtime::BaseRecognizer'
      },
    ]
  });
  $self->recognizer($param_ref->{recognizer});
  $self->decision_number(<dfa.decisionNumber>);
  $self->eot($DFA<dfa.decisionNumber>_eot);
  $self->eof($DFA<dfa.decisionNumber>_eof);
  $self->min($DFA<dfa.decisionNumber>_min);
  $self->max($DFA<dfa.decisionNumber>_max);
  $self->accept($DFA<dfa.decisionNumber>_accept);
  $self->special($DFA<dfa.decisionNumber>_special);
  $self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {
  return "<dfa.description>";
}

<@errorMethod()>

<if(!_errorMethod())>

sub special_state_transition {
  my ($self, $param_ref) = unpack_params(@_, {
    spec => [
      { name => 's',
        type => SCALAR,
      },
      { name => 'input',
        isa => 'ANTLR::Runtime::IntStream',
      }
    ]
  });
}

<@errorMethod()>

<if(!_errorMethod())>

sub special_state_state {
  my ($self, $param_ref) = unpack_params(@_, {
    spec => [
      { name => 's',
        type => SCALAR,
      },
      { name => 'input',
        isa => 'ANTLR::Runtime::IntStream',
      }
    ]
  });
}

<@errorMethod()>
my $s = $param_ref->[s];
my $input = $param_ref->[input];

switch ($s) {
    <dfa.specialStateSTs:{state |
        case <i0> \{ <! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n"
        }
    }

    <if(backtracking)>
        if ($self->state->backtracking > 0) {
            $self->state->failed = 1;
            return -1;
        }<\n>
    <endif>

    my $nvae =
    ANTLR::Runtime::NoViableAltException->new({
        grammar_decision_description => $self->get_description(),
        decision_number => <dfa.decisionNumber>,
        state_number => $s,
        input => $input,
    });<\n>
    $self->error($nvae);
    $nvae->throw();
}<\n>
}<\n>

/**
 * A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    my $input = $self->input;
    my $LA<decisionNumber>_<stateNumber> = $input->LA(1);<\n>
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
        my $index<decisionNumber>_<stateNumber> = $input->index();<\n>
        $input->rewind();<\n>
    <endif>
    $input.seek($index<decisionNumber>_<stateNumber>);<\n>
    if ( s>=0 ) return s;
    break;

    s = -1;
    <edges; separator="\n";
    <if(semPredState)> <! return input cursor to state before we rewound !>
        input.seek($index<decisionNumber>_<stateNumber>);<\n>
    <endif>
    if ( s>=0 ) return s;
    break;
/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif>) {s = <targetStateNumber>;}
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<
>>

// DFA EXPRESSIONS

andPredicates(left,right) ::= "(<left> && <right>)"
orPredicates(operands) ::= "(<operands; separator="||">)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred,description) ::= "<pred>"
evalSynPredicate(pred,description) ::= "<pred>()"
lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"
lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
($LA<decisionNumber>_<stateNumber> ge <lower> && $LA<decisionNumber>_<stateNumber> le <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "($self->input->LA(<k>) ge <lower> && $self->input->LA(<k>) le <upper>)"

setTest(ranges) ::= "<ranges; separator=" || ">

// ATTRIBUTES

globalAttributeScope(scope) ::= <<
protected static class <scope.name>_scope {
    <scope.attributes:{<it.decl>;}; separator="\n">
}
protected Stack <scope.name>_stack = new Stack();

ruleAttributeScope(scope) ::= <<
    <if(scope.attributes)>
        protected static class <scope.name>_scope {
            <scope.attributes:{<it.decl>;}; separator="\n">
        }
        protected Stack <scope.name>_stack = new Stack();
    </if>
    >>

ruleLabelType(referencedRule) ::= <<
    <if(referencedRule.hasMultipleReturnValues)>
        <referencedRule.name>_return
    </if>
    <if(referencedRule.hasSingleReturnValue)>
        <referencedRule.singleValueReturnType>
    </if>
    void
    <endif>
    >>

/* Generate the Java type associated with a single or multiple return values. */
ruleLabelType(referencedRule) ::= <<
    <if(referencedRule.hasMultipleReturnValues)>
        <referencedRule.name>_return
    </if>
    <if(referencedRule.hasSingleReturnValue)>
        <referencedRule.singleValueReturnType>
    </if>
    void
    <endif>
    >>

/* Using a type to init value map, try to init a type; if not in table must be an object, default value is "undef". */
initValue(typeName) ::= <<
/* Define a rule label including default value */
ruleLabelDef(label) ::= <<
  my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<<
>>

/* Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  {
    package <returnType()>;
    use ANTLR::Runtime::Class;

    extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

    <scope.attributes:{public $<it.decl>;}; separator="\n">
      @ruleReturnMembers()
  }<endif>
>>

parameterScope(scope) ::= <<
  <scope.attributes:{$<it.name>}; separator="",">
>>

parameterAttributeRef(attr) ::= "$<attr.name>"
parameterSetAttributeRef(attr, expr) ::= "$<attr.name> =<expr>;"

scopeAttributeRef(scope, attr, index, negIndex) ::= <<
  <if(negIndex)>
    (<<scope>_scope)_stack.elementAt(<<scope>_stack.size()-<negIndex>-1)).<attr.name>
  <else>
    (<<scope>_scope)_stack.elementAt(<index>).<attr.name>
  <else>
    (<<scope>_scope)_stack.peek().<attr.name>
  <endif>
>>
scopeSetAttributeRef(scope, attr, expr, index, negIndex) ::= «
  <if(negIndex)>
  ((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name> =<expr>;
  <else>
  <if(index)>
  ((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name> =<expr>;
  <else>
  (($scope)._scope).<attr.name> =<expr>;
  <endif>
  <endif>
»

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like { $function.size()>0 && $function::name.equals("foo") }?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule, scope, attr) ::= «
  <if(referencedRule.hasMultipleReturnValues)>
  $<scope>.<attr.name>
  <else>
  $<scope>
  <endif>
»

returnAttributeRef(ruleDescriptor, attr) ::= «
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> =<expr>;
  <else>
  $<attr.name> =<expr>;
  <endif>
»

returnSetAttributeRef(ruleDescriptor, attr, expr) ::= «
  <if(ruleDescriptor.hasMultipleReturnValues)>
  retval.<attr.name> =<expr>;
  <else>
  $<attr.name> =<expr>;
  <endif>
»

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID { $ids } or e+=expr { $e } */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= 
  "${<scope>->get_text()}

tokenLabelPropertyRef_type(scope,attr) ::= 
  "<scope>.getType()

tokenLabelPropertyRef_line(scope,attr) ::= 
  "<scope>.getLine()

tokenLabelPropertyRef_pos(scope,attr) ::= 
  "<scope>.getCharPositionInLine()

tokenLabelPropertyRef_channel(scope,attr) ::= 
  "<scope>.getChannel()

tokenLabelPropertyRef_index(scope,attr) ::= 
  "<scope>.getTokenIndex()

tokenLabelPropertyRef_tree(scope,attr) ::= 
  "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= 
  "((<labelType>)<scope>.start)"

ruleLabelPropertyRef_stop(scope,attr) ::= 
  "((<labelType>)<scope>.stop)"

ruleLabelPropertyRef_tree(scope,attr) ::= 
  "((<ASTLabelType>)<scope>.tree)"

ruleLabelPropertyRef_text(scope,attr) ::= 
  "<if(TREE_PARSER)"

  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    input.getTreeAdaptor().getTokenStopIndex(<scope>.start))

  <else>
    substr($self->input, $<scope>->start, $<scope>->stop)
  <endif>

<<

ruleLabelPropertyRef_st(scope,attr) ::= 
  "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */

lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= 
  "<scope>.getType()

lexerRuleLabelPropertyRef_line(scope,attr) ::= 
  "<scope>.getLine()

lexerRuleLabelPropertyRef_pos(scope,attr) ::= 
  "<scope>.getCharPositionInLine()

lexerRuleLabelPropertyRef_channel(scope,attr) ::= 
  "<scope>.getChannel()

lexerRuleLabelPropertyRef_index(scope,attr) ::= 
  "<scope>.getTokenIndex()

lexerRuleLabelPropertyRef_text(scope,attr) ::= 
  "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:

rulePropertyRef_start(scope,attr) ::= 
  "((<labelType>)retval.start)"

rulePropertyRef_stop(scope,attr) ::= 
  "((<labelType>)retval.stop)"

rulePropertyRef_tree(scope,attr) ::= 
  "((<ASTLabelType>)retval.tree)"

rulePropertyRef_text(scope,attr) ::= 
  "<if(TREE_PARSER)"

  input.getTokenStream().toString(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start))

  <else>
    substr($self->input, $retval->start, $retval->stop)
  <endif>

<<
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"
lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"
// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> ) {
<action>
}
<else>
if ( backtracking==0 ) {
<action>
}
<endif>
<else>
<action>
<endif>
>>
// M I S C (properties, etc...)
bitset(name, words64) ::= <<
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [ <words64:{'<it>'};separator=", "> ]
});<\n>
>>
codeFileExtension() ::= ".pm"
true() ::= "1"

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false() ::= "0"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/codegen/templates/Perl5/Perl5.stg
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 */
grammar Group;

options {
    language=Java;
}

tokens {
    TRUE='true'; FALSE='false'; LBRACK='['; RBRACK=']';
}

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*/
package org.stringtemplate.v4.compiler;

import java.util.Collections;
import java.util.Map;
import java.util.HashMap;
import java.util.List;
import java.util.ArrayList;
import org.stringtemplate.v4.misc. *
import org.stringtemplate.v4.*;
import java.io.File;
}

@lexer::header {
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*/
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.*;
import org.stringtemplate.v4.misc.*;
import java.io.File;
}
@members {
public STGroup group;
@Override
public void displayRecognitionError(String[] tokenNames,
RecognitionException e)
{
String msg = getErrorMessage(e, tokenNames);
group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
@Override
public String getSourceName() {
String fullFileName = super.getSourceName();
File f = new File(fullFileName); // strip to simple name
return f.getName();
}
public void error(String msg) {
NoViableAltException e = new NoViableAltException("", 0, 0, input);
group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
recover(input, null);
}
}
@lexer::members {
public STGroup group;

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@Override
public void reportError(RecognitionException e) {
    String msg = null;
    if ( e instanceof NoViableAltException ) {
        msg = "invalid character "+(char)input.LA(1)+""
    } else if ( e instanceof MismatchedTokenException && ((MismatchedTokenException)e).expecting=="" ) {
        msg = "unterminated string";
    } else {
        msg = getErrorMessage(e, getTokenNames());
    }
    group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}

@Override
public String getSourceName() {
    String fullFileName = super.getSourceName();
    File f = new File(fullFileName); // strip to simple name
    return f.getName();
}

@init {
    GroupLexer lexer = (GroupLexer)input.getTokenSource();
    this.group = lexer.group = $group;
}

oldStyleHeader? delimiter? {
    'import' STRING {group.importTemplates($STRING);}
    '}import' // common error: name not in string
    MismatchedTokenException e = new MismatchedTokenException(STRING, input);
    reportError(e);
    ID ('.' ID)* // might be a.b.c.d
    )* def[prefix]*
    EOF
    :

oldStyleHeader // ignore but lets us use this parser in AW for both v3 and v4
    : 'group' ID ('.' ID )? {group.id=($ID);}
    ( 'implements' ID ('.' ID)* )? {def[prefix]=($ID);}
    : ;

groupName returns [String name]
@init {StringBuilder buf = new StringBuilder();}
:a=ID {buf.append($a.text);} ('.' a=ID {buf.append($a.text);})*
;

delimiters
:'delimiters' a=STRING ',' b=STRING
{
group.delimiterStartChar=$a.getText().charAt(1);
group.delimiterStopChar=$b.getText().charAt(1);
}
;

/** Match template and dictionary defs outside of (...)+ loop in group.
 * The key is catching while still in the loop; must keep prediction of
 * elements separate from "stay in loop" prediction.
 */
def[String prefix] : templateDef[prefix] | dictDef;
catch[RecognitionException re] {
  // pretend we already saw an error here
  state.lastErrorIndex = input.index();
  error("garbled template definition starting at "+input.LT(1).getText()+"\n");
}

templateDef[String prefix]
@init {
  String template=null;
  int n=0; // num char to strip from left, right of template def
}
:('@' enclosing=ID '.' name=ID '(' ')'
|name=ID '(' formalArgs ')'
|'::='
{
  Token templateToken = input.LT(1);

  STRING {template=$STRING.text; n=1;}
  [BIGSTRING {template=$BIGSTRING.text; n=2;}
  BIGSTRING_NO_NL {template=$BIGSTRING_NO_NL.text; n=2;}
  ]
  |
  template = "";
  String msg = "missing template at "+input.LT(1).getText()+"\n";
  NoViableAltException e = new NoViableAltException("", 0, 0, input);
  group.errMgr.groupSyntaxError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
}
)
 |
if ( $name.index >= 0 ) { // if ID missing
  template = Misc.strip(template, n);
  String templateName = $name.text;
  if ( prefix.length()>0 ) templateName = prefix+$name.text;
}
String enclosingTemplateName = $enclosing.text;
if (enclosingTemplateName != null && enclosingTemplateName.length() > 0 && prefix.length() > 0) {
    enclosingTemplateName = prefix + enclosingTemplateName;
}
group.defineTemplateOrRegion(templateName, enclosingTemplateName, templateToken,
    template, $name, $formalArgs.args);
}

| alias=ID '::=' target=ID  {group.defineTemplateAlias($alias, $target);}
|

formalArgs returns [List<FormalArgument> args = new ArrayList<FormalArgument>()]
scope {
    boolean hasOptionalParameter;
}
@init { $formalArgs::hasOptionalParameter = false; }
:formalArg[$args] (',' formalArg[$args])*
|

formalArg[List<FormalArgument> args]
:ID
(=' a=(STRING|ANONYMOUS_TEMPLATE|true|false) {$formalArgs::hasOptionalParameter = true;}
|=' a='[' ']' {$formalArgs::hasOptionalParameter = true;}
|
if ($formalArgs::hasOptionalParameter) {
    group.errMgr.compileTimeError(ErrorType.REQUIRED_PARAMETER_AFTER_OPTIONAL,
        null, $ID);
}
}
{
    $args.add(new FormalArgument($ID.text, $a));
}

/*
suffix returns [int cardinality=FormalArgument.REQUIRED]
    : OPTIONAL
|  STAR
|  PLUS
|  
| */

dictDef
:ID '::=' dict
{
    if ( group.rawGetDictionary($ID.text)!=null ) {
        group.errMgr.compileTimeError(ErrorType.MAP_REDEFINITION, null, $ID);
    }
}
else if ( group.rawGetTemplate($ID.text)!=null ) {
    group.errMgr.compileTimeError(ErrorType.TEMPLATE_REDEFINITION_AS_MAP, null, $ID);
}
else {
    group.defineDictionary($ID.text, $dict.mapping);
}

;

dict returns [Map<String, Object> mapping]
@init { mapping=new HashMap<String, Object>();
 :	[' dictPairs[mapping] ']
 ;

dictPairs[Map<String, Object> mapping]
  :keyValuePair[mapping]
   (',' keyValuePair[mapping])* (',' defaultValuePair[mapping])?
   [defaultValuePair[mapping]]
   ;
   catch[RecognitionException re] {
       error("missing dictionary entry at "+input.LT(1).getText()+"");
    }

defaultValuePair[Map<String, Object> mapping]
  :
  default' ':' keyValue {mapping.put(STGroup.DEFAULT_KEY, $keyValue.value);}
  ;
keyValuePair[Map<String, Object> mapping]
  :STRING ':' keyValue {mapping.put(Misc.replaceEscapes(Misc.strip($STRING.text, 1)), $keyValue.value);}
  ;

keyValue returns [Object value]
  :BIGSTRING{$value = group.createSingleton($BIGSTRING);}
  [BIGSTRING_NO_NL{$value = group.createSingleton($BIGSTRING_NO_NL);}
  [ANONYMOUS_TEMPLATE{$value = group.createSingleton($ANONYMOUS_TEMPLATE);}
  [STRING{$value = Misc.replaceEscapes(Misc.strip($STRING.text, 1));}
  [TRUE{$value = true;}
  [FALSE{$value = false;}
  ['] ']{$value = Collections.emptyList();}
  [(input.LT(1).getText().equals("key"))?= ID
  {$value = STGroup.DICT_KEY;
  ];
  catch[RecognitionException re] {
      error("missing value for key at "+input.LT(1).getText()+");
  }
  ID:('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_')*
ANONYMOUS_TEMPLATE
	'{

Token templateToken = new CommonToken(input, ANONYMOUS_TEMPLATE, 0, getCharIndex(), getCharIndex());
STLexer lexer = new STLexer(group.errMgr, input, templateToken, group.delimiterStartChar, group.delimiterStopChar);
lexer.subtemplateDepth = 1;
Token t = lexer.nextToken();
while (lexer.subtemplateDepth>=1 || t.getType()!=STLexer.RCURLY) {
    if (t.getType()==STLexer.EOF_TYPE) {
        MismatchedTokenException e = new MismatchedTokenException('}', input);
        String msg = "missing final '}' in {...} anonymous template";
        group.errMgr.groupLexerError(ErrorType.SYNTAX_ERROR, getSourceName(), e, msg);
        break;
    }
    t = lexer.nextToken();
}

COMMENT
	'/\* ( options {greedy=false;} : .)* */\* {skip();}

LINE_COMMENT
	'//' ~('
'|'')* ''? '
' {skip();}

WS :	(' '|''|'	'|'
') {skip();}

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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/Group.g
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/GrammarSyntaxMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/analysis/DFAState.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/GrammarReport.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/Strip.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/analysis/StateCluster.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/Tool.java
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/Interp.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/AssignTokenTypesBehavior.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/analysis/RuleClosureTransition.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/GrammarInsufficientPredicatesMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/NameSpaceChecker.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/misc/MultiMap.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/FA Serializer.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/NonLLStarDecisionException.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/analysis/NFAContext.java
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* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/analysis/NFAToDFAConverter.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/analysis/SemanticContext.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/ACyclicDFACodeGenerator.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/ToolMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/tool/GrammarDanglingStateMessage.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/misc/BitSet.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/JavaTarget.java
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/Python3Target.java
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*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/
@outputFile.debugPreprocessor() ::= 
"#define ANTLR_DEBUG"

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
new string[
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", "}>
];<\n>
<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } }
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.DecRuleLevel(); }
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
protected virtual bool EvalPredicate(bool result, string predicate)
{
    dbg.SemanticPredicate(result, predicate);
    return result;
} <\n>
>>

cctorForRootGrammar() ::= <<
<! bug: can’t use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<actions.(actionScope).ctorModifier; null=“public”> <name>(<inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null=“public”> <name>(<inputStreamType> input, int port,
RecognizerSharedState state )
: base( input, state )
{
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()> }> );} separator="\n”>
<parserCtorBody()>
<@finally()>}
} <\n>
>>

cctorForProfilingRootGrammar() ::= <<
<! bug: can’t use <@super.members()> cut-n-paste instead !>
<actions.(actionScope).ctorModifier; null=“public”> <name>(<inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null=“public”> <name>(<inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<grammar.directDelegates:
{g}<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|,
<g:delegateName()> }> );} separator="\n”>
<parserCtorBody()>
<@finally()>}
} <\n>
>>
/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state<grammar.delegators:{g, <g.recognizerName> <g:delegateName()>}> )
: base( input, dbg, state )
{
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g,
<g:delegateName()> } > );}; separator="\n">
<parserCtorBody()>
}<n>
>>

torForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg
)
:@superClassRef>: base( input, dbg, new RecognizerSharedState() ):@end>
{
@if(profile)
Profiler p = (Profiler)dbg;
p.setParser(this);
@endif>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g, <g:delegateName()>}>);}; separator="\n">
<parserCtorBody()>
}@finally()>
}<n>
>>

createListenerAndHandshake() ::= <<
@if(TREE_PARSER>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
#else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
@endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

@genericParser.superClassName() ::= "Debug:@super.superClassName()"

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/*
 * Many of the following rules were merged into CSharp2.stg.
 */

@rule.preamble() ::= <<
if (RuleLevel == 0)
    DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
//dbg.EnterRule( GrammarFileName, "<ruleName>" );
//if ( RuleLevel == 0 )
//{
//dbg.Commence();
//}
//IncRuleLevel();
//dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );\n
//>>

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
    DebugListener.Terminate();
>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
//}
//finally
//{
//dbg.ExitRule( GrammarFileName, "<ruleName>" );
//DecRuleLevel();
//if ( RuleLevel == 0 )
//{
//dbg.Terminate();
//}
}/${n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{


//dbg.EnterSubRule( decisionNumber );
//>

//exitSubRule() ::= <<
//}
//finally
//{
//dbg.ExitSubRule( decisionNumber );
//}<
//>>

//enterDecision() ::= <<
//try
//{
//dbg.EnterDecision( decisionNumber );
//}<
//>

//exitDecision() ::= <<
//}
//finally
//{
//dbg.ExitDecision( decisionNumber );
//}<
//>>

//enterAlt(n) ::= "dbg.EnterAlt( <n> );"

// Region overrides that tell various constructs to add debugging triggers
//@block.predecision() ::= "<enterSubRule()><enterDecision()>">
//@block.postdecision() ::= "<exitDecision()>">
//@block.postbranch() ::= "<exitSubRule()>">
//@ruleBlock.predecision() ::= "<enterDecision()>">
//@ruleBlock.postdecision() ::= "<exitDecision()>">
//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>">
//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>">
//@positiveClosureBlock.preloop() ::= "<enterSubRule()>">
//@positiveClosureBlock.postloop() ::= "<exitSubRule()>">
//@positiveClosureBlock.predecision() ::= "<enterDecision()>">
//@positiveClosureBlock.postdecision() ::= "<exitDecision()>
"
//@positiveClosureBlock.earlyExitException() ::=
="/"dbg.RecognitionException( eee<decisionNumber> );<
>
//@closureBlock.preloop() ::= "<enterSubRule()>
"
//@closureBlock.postloop() ::= "<exitSubRule()>
"
//@closureBlock.predecision() ::= "<enterDecision()>
"
//@closureBlock.postdecision() ::= "<exitDecision()>
"
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"
//@element.prematch() ::= 
="/"dbg.Location( <it.line>, <it.pos> );";
//@matchSet.mismatchedException() ::= 
="/"dbg.RecognitionException( mse );";
//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvaе );"
//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvaе );"
//@dfaDecision(decisionNumber,description) ::= 
//try
//{
//isCyclicDecision = true;
//@super.dfaDecision(...)
//}
//catch ( NoViableAltException nvaе )
//{
//@dbg.RecognitionException( nvaе );
//@throw nvaе;
//}
//@>
//@cyclicDFA.errorMethod() ::= <<
//@public override void Error( NoViableAltException nvaе )
//@{
//@((DebugParser)recognizer).dbg.RecognitionException( nvaе );
//@}
//@>>

//@ evalPredicate(pred,description) ::= <<

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>
Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24//0/antlr-complete-3-5-2-sources-
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*/
/*
New style messages. This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

group antlr;

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>({message.id}): <location> <message.text>"
wantsSingleLineMessage() ::= "false"

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*/

package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** A parser used to break up a single template into chunks, text literals
 *  and attribute expressions.
 */
class TemplateParser extends Parser;
{
  protected StringTemplate self;

  public void reportError(RecognitionException e) {
    StringTemplateGroup group = self.getGroup();
    if (group==StringTemplate.defaultGroup) {
      self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
    }
    else {
      self.error("template parse error in group "+group.getName()+" line "+self.getGroupFileLine()+";
template context is "+self.getEnclosingInstanceStackString(), e);
    }
  }
}

//template[StringTemplate self]
this.self = self;
}
: ( s:LITERAL {self.addChunk(new StringRef(self,s.getText()));}
| nl:NEWLINE
{
if ( LA(1)!=ELSE && LA(1)!=ENDIF ) {
self.addChunk(new NewlineRef(self,nl.getText()));
}
}
| action[self]
)*
;
action[StringTemplate self]
: a:ACTION
{
String indent = ((ChunkToken)a).getIndentation();
ASTExpr c = self.parseAction(a.getText());
c.setIndentation(indent);
self.addChunk(c);
}
| i:IF
{
ConditionalExpr c = (ConditionalExpr)self.parseAction(i.getText());
// create and precompile the subtemplate
StringTemplate subtemplate =
new StringTemplate(self.getGroup(), null);
subtemplate.setEnclosingInstance(self);
subtemplate.setName(i.getText()+"_subtemplate");
self.addChunk(c);
}
template[subtemplate] {if ( c!=null ) c.setSubtemplate(subtemplate);}
( ei:ELSEIF
{
ASTExpr ec = self.parseAction(ei.getText());
// create and precompile the subtemplate
StringTemplate elseIfSubtemplate =
new StringTemplate(self.getGroup(), null);
elseIfSubtemplate.setEnclosingInstance(self);
elseIfSubtemplate.setName(ei.getText()+"_subtemplate");
}
template[elseIfSubtemplate]
{if ( c!=null ) c.addElseIfSubtemplate(ec, elseIfSubtemplate);}

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( ELSE

// create and precompile the subtemplate
StringTemplate elseSubtemplate =
new StringTemplate(self.getGroup(), null);
elseSubtemplate.setEnclosingInstance(self);
elseSubtemplate.setName("else_subtemplate");
}

template[elseSubtemplate]
{if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}
)?

ENDIF

|rr:REGION_REF
{
// define implicit template and
// convert <@r()> to <region__enclosingTemplate__r()>
String regionName = rr.getText();
String mangledRef = null;
boolean err = false;
// watch out for <@super.r()>; that does NOT def implicit region
// convert to <super.region__enclosingTemplate__r()>
if ( regionName.startsWith("super. ") ) {
//System.out.println("super region ref "+regionName);
String regionRef =
regionName.substring("super.").length(),regionName.length());
String templateScope =
self.getGroup().getUnMangledTemplateName(self.getName());
StringTemplate scopeST = self.getGroup().lookupTemplate(templateScope);
if ( scopeST==null ) {
self.getGroup().error("reference to region within undefined template: "+
templateScope);
err=true;
}
if ( !scopeST.containsRegionName(regionRef) ) {
self.getGroup().error("template "+templateScope+" has no region called "+
regionRef);
err=true;
}
else {
    mangledRef =
    self.getGroup().getMangledRegionName(templateScope,regionRef);
    mangledRef = "super."+mangledRef;
}
else {
    //System.out.println("region ref "+regionName);
    StringTemplate regionST =
        self.getGroup().defineImplicitRegionTemplate(self,regionName);
    mangledRef = regionST.getName();
}

if ( !err ) {
    // treat as regular action: mangled template include
    String indent = ((ChunkToken)rr).getIndentation();
    ASTExpr c = self.parseAction(mangledRef+"()");
    c.setIndentation(indent);
    self.addChunk(c);
    }
    }

    rd:REGION_DEF
    {
    String combinedNameTemplateStr = rd.getText();
    int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=");
    if ( indexOfDefSymbol>=1 ) {
        String regionName = combinedNameTemplateStr.substring(0,indexOfDefSymbol);
        String template =
            combinedNameTemplateStr.substring(indexOfDefSymbol+3,
            combinedNameTemplateStr.length());
        StringTemplate regionST =
            self.getGroup().defineRegionTemplate(self,
            regionName,
            template,
            StringTemplate.REGION_EMBEDDED);
        // treat as regular action: mangled template include
        String indent = ((ChunkToken)rd).getIndentation();
        ASTExpr c = self.parseAction(regionST.getName()+"()");
        c.setIndentation(indent);
        self.addChunk(c);
    } else {
        self.error("embedded region definition screwed up");
    }
    }
    ;

    /** Break up an input text stream into chunks of either plain text
     * or template actions in "$...$". Treat IF and ENDIF tokens
     * specially.
     */
    class DefaultTemplateLexer extends Lexer;
options {
    k=7; // see "$endif$"
    charVocabulary = '\u0001'..'\uFFFE';
}

protected String currentIndent = null;
protected StringTemplate self;

public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("$...$ chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
        LA(i+5)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
        LA(i+5)=='f'&&LA(i+6)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)==''&&
        LA(i+5)=='$$';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)=='\r'&&LA(i+1)=='\n')||LA(i)=='\n';
}

LITERAL
   {LA(1)!='\r'&&LA(1)!='\n'}?

\{\options { generateAmbigWarnings=false; }
   {int loopStartIndex=text.length();
    int col=getColumn();
   }
   : '{\!}'$ // allow escaped delimiter
   | '\!\W' // always replace \ with \
   | '\W~'$/ // otherwise ignore escape char
if (col==1 && LA(1)=='$') {
    // store indent in ASTExpr not in a literal
    currentIndent=ind.getText();
}
else currentIndent=null;

if (($getText).length()==0) {$setType(Token.SKIP);}

options {
    generateAmbigWarnings=false; // $EXPR$ is ambig with $!..!$
}

int startCol = getColumn();

: LINE_BREAK {$setType(Token.SKIP);}
    // Match escapes not in a string like <\u0000>
    StringBuffer buf = new StringBuffer(); char uc = '\u0000';
    '$'! (uc=ESC_CHAR {buf.append(uc); })+'$'!
    {$setText(buf.toString()); $setType(LITERAL);}
    // Match escapes not in a string like <\n\ufea5>
    | COMMENT {$setType(Token.SKIP);}
    |   (options {
        generateAmbigWarnings=false; // $endif$ is ambig with $endif$ etc...
    })
    |   '$'! "if" ('!'*) "(" IF_EXPR ")" '!' {$setType(TemplateParser.IF);}
        ( (\r'!)? \n! {newline();})? // ignore any newline right after an IF
    | $!' "elseif" ('!'*) "(" IF_EXPR ")" '!' {$setType(TemplateParser.ELSEIF);}
        ( (\r'!)? \n! {newline();})? // ignore any newline right after an IF
    | $!' "else" '!' {$setType(TemplateParser.ELSE);}
        ( (\r'!)? \n! {newline();})? // ignore any newline right after an ELSE
    | $!' "endif" '!' {$setType(TemplateParser.ENDIF);}
        ( (startCol==1)? (\r'!)? \n! {newline();})? // ignore after ENDIF if on line by itself
    
    // match $@foo()$ => foo
    // match $@foo$...$@end$ => foo::=...
    '$'! '@'! (~('$'|('('))+("("! '$'! {$setType(TemplateParser.REGION_REF);}


```java
| '$'!
| $setType(TemplateParser.REGION_DEF);
| String t=$getText;
| $setText(t+"::=");
| }
| ( options {greedy=true;} : ('')? '
'! {newline();})?
| [boolean atLeft = false;]
| )
| )+
| ( ( '\r'!) ? '\n'! {newline(); atLeft = true; })?
| ("$@end$"!
| [ self.error("missing region "+t+" $@end$ tag");]
| )
| ( [atLeft] ? ( '\r'!) ? '\n'! {newline();})?
| )
| | '!' EXPR '!' // (Can't start with '!', which would mean comment)
| )
| {
| ChunkToken t = new ChunkToken(_ttype, $getText, currentIndent);
| $setToken(t);
| }
| ;

protected
EXPR: ( ESC
| ( '\r'?) '\n' {newline();}
| SUBTEMPLATE
| ('='|'+') TEMPLATE
| ('='|'+') SUBTEMPLATE
| ('='|'+') ~('"'|'<'|'{')
| ~'$'
| )+
| ;

protected
TEMPLATE
:"" ( ESC | ":" )* ":"
| "<"<"" (options {greedy=true;} : (''?)? '\n'! {newline();})? // consume 1st \n
(options {greedy=false;} // stop when you see the >>
 [:LA(3)=='>'&&LA(4)=='=>') ? '\r'! '\n'! {newline();} // kill last \n
[L](LA(2)=='>')? '\n'! {newline();} // kill last \n
protected
COMMENT
{
    int startCol = getColumn();
}

: "$!"
options {greedy=false;}
:\(\vr\)? \'n\' {newline();}
|)
)*
"!$" ( {startCol==1}? (\vr\)? \'n\' {newline();} )?

protected
LINE_BREAK
: "$\\$" (INDENT)? ('')? '
' {newline();} (INDENT)?

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/stringtemplate/language/template.g
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tree grammar CodeGenerator;

options {
    language=Java;
    tokenVocab=STParser;
    ASTLabelType=CommonTree;
}

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 */
package org.stringtemplate.v4.compiler;
import org.stringtemplate.v4.misc.*;
import org.stringtemplate.v4.*;
}

@members {
String outermostTemplateName;// name of overall template
CompiledST outermostImpl;


Token templateToken; // overall template token
String template; // overall template text
ErrorManager errMgr;

public CodeGenerator(TreeNodeStream input, ErrorManager errMgr, String name, String template, Token templateToken) {
    this(input, new RecognizerSharedState());
    this.errMgr = errMgr;
    this.outermostTemplateName = name;
    this.template = template;
    this.templateToken = templateToken;
}

// convience funcs to hide offensive sending of emit messages to
// CompilationState temp data object.

public void emit1(CommonTree opAST, short opcode, int arg) {
    $template::state.emit1(opAST, opcode, arg);
}

public void emit1(CommonTree opAST, short opcode, String arg) {
    $template::state.emit1(opAST, opcode, arg);
}

public void emit2(CommonTree opAST, short opcode, int arg, int arg2) {
    $template::state.emit2(opAST, opcode, arg, arg2);
}

public void emit2(CommonTree opAST, short opcode, String s, int arg2) {
    $template::state.emit2(opAST, opcode, s, arg2);
}

public void emit(CommonTree opAST, short opcode) {
    $template::state.emit(opAST, opcode);
}

public void insert(int addr, short opcode, String s) {
    $template::state.insert(addr, opcode, s);
}

public void setOption(CommonTree id) {
    $template::state.setOption(id);
}

public void write(int addr, short value) {
    $template::state.write(addr, value);
}

public int address() { return $template::state.ip; }

public void func(CommonTree id) {
    $template::state.func(templateToken, id);
}

public void refAttr(CommonTree id) {
    $template::state.refAttr(templateToken, id);
}

public int defineString(String s) {
    return $template::state.defineString(s);
}

}

templateAndEOF : template[null,null] EOF; // hush warning; ignore

template[String name, List<FormalArgument> args] returns [CompiledST impl]
scope {
    CompilationState state; // automatically get a new state pointer per invocation
}
@init {
$Template::state = new CompilationState(errMgr, name, input.getTokenStream());
$Impl = $Template::state.impl;
if ( $Template.size() == 1 ) outermostImpl = $Impl;
$Impl.defineFormalArgs($Args); // make sure args are defined prior to compilation
if ( name!=null && name.startsWith(Compiler.SUBTEMPLATE_PREFIX) ) {
    $Impl.addArg(new FormalArgument("i"));
    $Impl.addArg(new FormalArgument("i0"));
}
$Impl.template = template; // always forget the entire template; char indexes are relative to it
}
:chunk
{ // finish off the CompiledST result
    if ( $Template::state.stringtable!=null ) $Impl.strings = $Template::state.stringtable.toArray();
    $Impl.codeSize = $Template::state.ip;
}
;
chunk :
element*
;
element :
  ^(INDENTED_EXPR INDENT compoundElement[$INDENT]) // ignore indent in front of IF and region blocks
[compoundElement=null]
[^INDENTED_EXPR INDENT { $Template::state.indent($INDENT); } singleElement
{ $Template::state.emit(Bytecode.INSTR_DEDENT); }]
singleElement
;
singleElement :
  exprElement
[TTEXT
{
if ( $TTEXT.text.length()>0 ) {
emit1($TTEXT,Bytecode.INSTR_WRITE_STR, $TTEXT.text);
}
}
]
[NEWLINE { emit($NEWLINE, Bytecode.INSTR_NEWLINE); }]
;
compoundElement[CommonTree indent]
:ifstat[indent]
:region[indent]
exprElement
@init { short op = Bytecode.INSTR_WRITE; }
:^ ( EXPR expr (exprOptions {op=Bytecode.INSTR_WRITE_OPT;})? )
{
/*
CompilationState state = $template::state;
CompiledST impl = state.impl;
if ( impl.instrs[state.ip-1] == Bytecode.INSTR_LOAD_LOCAL ) {
impl.instrs[state.ip-1] = Bytecode.INSTR_WRITE_LOCAL;
}
else {
emit(EXPR, op);
}
*/
emit(EXPR, op);
}

region/CommonTree indent] returns [String name]
@init {
if ( indent!=null ) $template::state.indent(indent);
}
@after {
if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
:^ (REGION ID
{$name = STGroup.getMangledRegionName(outermostTemplateName, $ID.text);}
template[$name,null]
{
CompiledST sub = $template.impl;
    sub.isRegion = true;
    sub.regionDefType = ST.RegionType.EMBEDDED;
    sub.templateDefStartToken = $ID.token;
    //sub.dump();
outermostImpl.addImplicitlyDefinedTemplate(sub);
emit2($start, Bytecode.INSTR_NEW, $region.name, 0);
emit($start, Bytecode.INSTR_WRITE);
}
)

subtemplate returns [String name, int nargs]
@init {
    $name = Compiler.getNewSubtemplateName();
    List<FormalArgument> args = new ArrayList<FormalArgument>();
}
(:^\s*\^\s*(ARGS \s*ID \s*{\s*args.add(new FormalArgument($ID.text));\s*\}\})+\)\*\n{\$nargs = args.size();\}
template[$name, args]
{
    CompiledST sub = $template.impl;
    sub.isAnonSubtemplate = true;
    sub.templateDefStartToken = $SUBTEMPLATE.token;
    sub.ast = $SUBTEMPLATE;
    sub.setUnknownTokenBoundaries();
    sub.tokens = input.getTokenStream();
    //sub.dump();
    outermostImpl.addImplicitlyDefinedTemplate(sub);
}
)

SUBTEMPLATE // {}
{
    CompiledST sub = new CompiledST();
    sub.name = $name;
    sub.template = "";
    sub.addArg(new FormalArgument("i"));
    sub.addArg(new FormalArgument("i0"));
    sub.isAnonSubtemplate = true;
    sub.templateDefStartToken = $SUBTEMPLATE.token;
    sub.ast = $SUBTEMPLATE;
    sub.setUnknownTokenBoundaries();
    sub.tokens = input.getTokenStream();
    //sub.dump();
    outermostImpl.addImplicitlyDefinedTemplate(sub);
}
;  

ifstat[CommonTree indent]
@init {
    /** Tracks address of branch operand (in code block). It's how
     * we backpatch forward references when generating code for IFs.
     */
    int prevBranchOperand = -1;
    /** Branch instruction operands that are forward refs to end of IF.
     * We need to update them once we see the endif.
     */
    List<Integer> endRefs = new ArrayList<Integer>();
    if ( indent!=null ) $template::state.indent(indent);
}
@after {
    if ( indent!=null ) $template::state.emit(Bytecode.INSTR_DEDENT);
}
: ^\(i='if' conditional
!
prevBranchOperand = address()+1;
emit1($i,Bytecode.INSTR_BRF, -1); // write placeholder as branch target
}
chunk
(^)(eif=elseif)
{
endRefs.add(address()+1);
emit1($eif,Bytecode.INSTR_BR, -1); // br end
// update previous branch instruction
write(prevBranchOperand, (short)address());
prevBranchOperand = -1;
}
ec=conditional
{
prevBranchOperand = address()+1;
// write placeholder as branch target
emit1($ec.start, Bytecode.INSTR_BRF, -1);
}
chunk
)
)*
(^)(el=else)
{
endRefs.add(address()+1);
emit1($el, Bytecode.INSTR_BR, -1); // br end
// update previous branch instruction
write(prevBranchOperand, (short)address());
prevBranchOperand = -1;
}
chunk
)
)?
)
{
if ( prevBranchOperand>=0 ) {
write(prevBranchOperand, (short)address());
}
for (int opnd : endRefs) write(opnd, (short)address());
}
;

conditional :
^[OR conditional conditional]{emit($OR, Bytecode.INSTR_OR);}
|^[AND conditional conditional]{emit($AND, Bytecode.INSTR_AND);}
|^[BANG conditional]{emit($BANG, Bytecode.INSTR_NOT);}
|expr // not all expr are valid, but reuse code gen (parser restricts syntax)
;
exprOptions : {emit($start, Bytecode.INSTR_OPTIONS); } ^(OPTIONS option* ) ;

option : ^('=' ID expr) {setOption($ID); } ;

expr
@init {int nt = 0, ne = 0;}
:^((ZIP ^ELEMENTS (expr {ne++;})+) mapTemplateRef[ne])
{emit1($ZIP, Bytecode.INSTR_ZIP_MAP, ne);} ^((MAP expr (mapTemplateRef[1] {nt++;})+) )
{
if ( nt>1 ) emit1($MAP, nt>1?Bytecode.INSTR_ROT_MAP:Bytecode.INSTR_MAP, nt);
else emit($MAP, Bytecode.INSTR_MAP);
}
|prop
|includeExpr :
;

prop:^((PROP expr ID) {emit1($PROP, Bytecode.INSTR_LOAD_PROP, $ID.text);}) ^((PROP_IND expr expr) {emit($PROP_IND, Bytecode.INSTR_LOAD_PROP_IND);})
;

mapTemplateRef[int num_exprs]
:^((INCLUDE ID
{for (int i=1; i<=$num_exprs; i++) emit($INCLUDE,Bytecode.INSTR_NULL);})
args )
{
if ( $args.passThru ) emit1($start, Bytecode.INSTR_PASSTHRU, $ID.text);
if ( $args.namedArgs ) emit1($INCLUDE, Bytecode.INSTR_NEW_BOX_ARGS, $ID.text);
else emit2($INCLUDE, Bytecode.INSTR_NEW, $ID.text, $args.n+$num_exprs);
}
|subtemplate
{
if ( $subtemplate.nargs != $num_exprs ) {
   errMgr.compileTimeError(ErrorType.ANON_ARGUMENT_MISMATCH,
   templateToken, $subtemplate.start.token, $subtemplate.nargs, $num_exprs);
}
for (int i=1; i<=$num_exprs; i++) emit($subtemplate.start,Bytecode.INSTR_NULL);
emit2($subtemplate.start, Bytecode.INSTR_NEW,
   $subtemplate.name,
   $num_exprs);
}
|^((INCLUDE_IND expr
{
emit($INCLUDE_IND,Bytecode.INSTR_TOSTR);
for (int i=1; i<=$num_exprs; i++) emit($INCLUDE_IND,Bytecode.INSTR_NULL);
})
includeExpr
:^(EXEC_FUNC ID expr?)\{func($ID);\}
|^\(INCLUDE ID args\)
 |
|^\(INCLUDE_SUPER ID args\)
 |
|^\(INCLUDE_REGION ID\)
 |
|^\(INCLUDE_SUPER_REGION ID\)
 |
|primary
 |
:ID\{refAttr($ID);\}
|STRING\{emit1($STRING,Bytecode.INSTR_LOAD_STR, Misc.strip($STRING.text,1));\}
|TRUE\{emit($TRUE, Bytecode.INSTR_TRUE);\}
|FALSE\{emit($FALSE, Bytecode.INSTR_FALSE);\}
|subtemplate// push a subtemplate but ignore args since we can't pass any to it here
 |
|list
|^\(INCLUDE_IND
 |
|expr\{emit1($INCLUDE_IND, Bytecode.INSTR_TOSTR);\}
|args\{emit1($INCLUDE_IND, Bytecode.INSTR_NEW_IND, $args.n);\}
|^\(\text{\texttt{TO\_STR}}\ \text{\texttt{expr}}\)\{\text{\texttt{emit}}(\text{\texttt{\$TO\_STR}}, \text{\texttt{Bytecode.INSTR\_TOSTR}});\}

\;

arg : expr ;

\;

args returns [int n=0, boolean namedArgs=false, boolean passThru]
: \(\text{arg} \\{\text{n++;}\} +\)

\[\text{\{\text{emit}($\text{args.start}, \text{\texttt{Bytecode.INSTR\_ARGS}}); \text{\$namedArgs=true;}\}}\]

\(\text{\{\text{$n++; \text{emit1}($eq, \text{\texttt{Bytecode.INSTR\_STORE\_ARG}}, \text{\texttt{defineString}($\text{ID.text});})\}}\}

\)\+

\(\text{\{\text{\$passThru=true;}\}}\?

\[\| \quad \text{\{\text{$\text{\$passThru=true; \text{emit}($\text{args.start, \text{\texttt{Bytecode.INSTR\_ARGS}}); \text{\$namedArgs=true;}\}}\}}\]

\|

\;

list: \{\text{\texttt{emit}}($\text{start}, \text{\texttt{Bytecode.INSTR\_LIST}});\}

\(^\text{\{\text{\texttt{LIST}} (\text{\texttt{listElement \{\text{\texttt{emit}($\text{listElement.start, \text{\texttt{Bytecode.INSTR\_ADD}});\}}\}})\}}\*)\)

\;

listElement : expr |NULL \{\text{\texttt{emit}($\text{NULL,Bytecode.INSTR\_NULL});\}}


Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/stringtemplate/v4/compiler/CodeGenerator.g

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/

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New style messages. This file only contains the messages in English, but no information about which file, line, or column it occurred in. The location and message ids are taken out of the formats directory.
Kay Roepke

// TOOL ERRORS
// file errors
CANNOT_WRITE_FILE(arg,exception,stackTrace) ::= <<
cannot write file <arg>: <exception>
<stackTrace; separator="\n">
>>
CANNOT_CLOSE_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"
CANNOT_FIND_TOKENS_FILE(arg) ::= "cannot find tokens file <arg>"
ERROR_READING_TOKENS_FILE(arg,exception,stackTrace) ::= <<
problem reading token vocabulary file <arg>: <exception>
<stackTrace; separator="\n">
>>
DIR_NOT_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"
OUTPUT_DIR_IS_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"
CANNOT_OPEN_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg> <if(exception)>; reason: <exception><endif>"
CIRCULAR_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid build order."

INTERNAL_ERROR(arg,arg2,exception,stackTrace) ::= <<
internal error: <arg> <arg2><if(exception)>: <exception><endif>
INTERNAL_WARNING(arg) ::= "internal warning: <arg>"
ERROR_CREATING_ARTIFICIAL_RULE(arg, exception, stackTrace) ::= "problems creating lexer rule listing all tokens: <exception>
TOKENS_FILE_SYNTAX_ERROR(arg, arg2) ::= "problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg, exception, stackTrace) ::= "cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception, stackTrace) ::= "bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg, exception, stackTrace) ::= "bad internal tree structure '<arg>': <exception>
FILE_AND_GRAMMAR_NAME_DIFFER(arg, arg2) ::= "file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::= "file <arg> must end in a file extension, normally .g"
MISSING_CODE_GEN_TEMPLATES(arg) ::= "cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::= "cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::= "at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg, exception, stackTrace) ::= "cannot create target <arg> code generator: <exception>"
STRING TEMPLATE_ERROR(arg,exception,stackTrace) ::= "template error: <arg>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::= "cannot generate a sample input sequence from lookahead DFA"
NO_VIABLE_DFA_ALT(arg, arg2) ::= "no viable transition from state <arg> on <arg2> while interpreting DFA"
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::= "rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::= "lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::= "parser rule <arg> not allowed in lexer"
CANNOT_FIND_ATTRIBUTE_NAME_IN_DECL(arg) ::= "cannot find an attribute name in attribute declaration"
NO_TOKEN_DEFINITION(arg) ::= "no lexer rule corresponding to token: <arg>"
UNDEFINED_RULE_REF(arg) ::= "reference to undefined rule: <arg>"
LITERAL_NOT_ASSOCIATED_WITH_LEXER_RULE(arg) ::= "literal has no associated lexer rule: <arg>"
CANNOT_ALIAS_TOKENS_IN_LEXER(arg) ::= "literals are illegal in lexer tokens{} section: <arg>"
ATTRIBUTE_REF_NOT_IN_RULE(arg, arg2) ::= "reference to attribute outside of a rule: <arg><if(arg2>).<arg2><endif>"
UNKNOWN_ATTRIBUTE_IN_SCOPE(arg, arg2) ::= "unknown attribute for <arg>: <arg2>"
UNKNOWN_RULE_ATTRIBUTE(arg, arg2) ::= "unknown attribute for rule <arg>: <arg2>"
UNKNOWN_SIMPLE_ATTRIBUTE(arg, arg2) ::= "attribute is not a token, parameter, or return value: <arg>"
ISOLATED_RULE_SCOPE(arg) ::= "missing attribute access on rule scope: <arg>"
INVALID_RULE_PARAMETER_REF(arg, arg2) ::= "cannot access rule <arg>’s parameter: <arg2>"
INVALID_RULE_SCOPE_ATTRIBUTE_REF(arg, arg2) ::= "cannot access rule <arg>’s dynamically-scoped attribute: <arg2>"
SYMBOL_CONFLICTS_WITH_GLOBAL_SCOPE(arg) ::= "symbol <arg> conflicts with global dynamic scope with same name"
WRITE_TO_READONLY_ATTR(arg, arg2, arg3) ::= "cannot write to read only attribute: $<arg><if(arg2>).<arg2><endif>"
LABEL_CONFLICTS_WITH_RULE(arg) ::= "label <arg> conflicts with rule with same name"
LABEL_CONFLICTS_WITH_TOKEN(arg) ::= "label <arg> conflicts with token with same name"
LABEL_CONFLICTS_WITH_RULE_SCOPE_ATTRIBUTE(arg, arg2) ::= "label <arg> conflicts with rule <arg2>’s dynamically-scoped attribute with same name"
LABEL_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= "label <arg> conflicts with rule <arg2>’s return value or parameter with same name"
ATTRIBUTE_CONFLICTS_WITH_RULE(arg, arg2) ::= "rule <arg2>’s dynamically-scoped attribute <arg> conflicts with the rule name"
ATTRIBUTE_CONFLICTS_WITH_RULE_ARG_RETVAL(arg, arg2) ::= "rule <arg2>’s dynamically-scoped attribute <arg> conflicts with <arg2>’s return value or parameter with same name"
LABEL_TYPE_CONFLICT(arg, arg2) ::= "label <arg> type mismatch with previous definition: <arg2>"
ARG_RETVAL_CONFLICT(arg, arg2) ::= "rule <arg2>’s argument <arg> conflicts a return value with same name"
NONUNIQUE_REF(arg) ::="
"<arg> is a non-unique reference"
FORWARD_ELEMENT_REF(arg) ::= 
"illegal forward reference: <arg>"
MISSING_RULE_ARGS(arg) ::= 
"missing parameter(s) on rule reference: <arg>"
RULE_HAS_NO_ARGS(arg) ::= 
"rule <arg> has no defined parameters"
ARGS_ON_TOKEN_REF(arg) ::= 
"token reference <arg> may not have parameters"
ILLEGAL_OPTION(arg) ::= 
"illegal option <arg>"
LIST_LABEL_INVALID_UNLESS_RETVAL_STRUCT(arg) ::= 
"rule '+' list labels are not allowed w/o output option: <arg>"
UNDEFINED_TOKEN_REF_IN_REWRITE(arg) ::= 
"reference to undefined token in rewrite rule: <arg>"
REWRITE_ELEMENT_NOT_PRESENT_ON_LHS(arg) ::= 
"reference to rewrite element <arg> without reference on left of ->"
UNDEFINED_LABEL_REF_IN_REWRITE(arg) ::= 
"reference to undefined label in rewrite rule: $<arg>"
NO_GRAMMAR_START_RULE (arg) ::= 
"grammar <arg>: no start rule (no rule can obviously be followed by EOF)"
EMPTY_COMPLEMENT(arg) ::= 
<if(arg)> 
set complement ~<arg> is empty 
<else> 
set complement is empty 
<endif> 
>
UNKNOWN_DYNAMIC_SCOPE(arg) ::= 
"unknown dynamic scope: <arg>"
UNKNOWN_DYNAMIC_SCOPE_ATTRIBUTE(arg,arg2) ::= 
"unknown dynamically-scoped attribute for scope <arg>: <arg2>"
RULE_REF_AMBIG_WITH_RULE_IN_ALT(arg) ::= 
"reference $<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"
ISOLATED_RULE_ATTRIBUTE(arg) ::= 
"reference to locally-defined rule scope attribute without rule name: <arg>"
INVALID_ACTION_SCOPE(arg,arg2) ::= 
"unknown or invalid action scope for <arg2> grammar: <arg>"
ACTION_REDEFINITION(arg) ::= 
"redefinition of <arg> action"
DOUBLE_QUOTES_ILLEGAL(arg) ::= 
"string literals must use single quotes (such as \begin\): <arg>"
INVALID_TEMPLATE_ACTION(arg) ::= 
"invalid StringTemplate % shorthand syntax: '<arg>'"
MISSING_ATTRIBUTE_NAME() ::= 
"missing attribute name on $ reference"
ARG_INIT_VALUES_ILLEGAL(arg) ::=
"rule parameters may not have init values: <arg>"

REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::= 
"if(arg) rule <arg> uses rewrite syntax or operator with no output option; setting output=AST"

AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::= 
"AST operator with non-AST output option: <arg>"

NO_RULES(arg) ::= "grammar file <arg> has no rules"

MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::= 
"tree grammar <arg> has no ASTLabelType option"

REWRITE_FOR_MULTI_ELEMENT_ALT(arg) ::= 
"with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be correct"

RULE_INVALID_SET(arg) ::= 
"Cannot complement rule <arg>; not a simple set or element"

HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::= 
"alts with rewrites can't use heterogeneous types left of ->

NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::= 
"reference to undefined grammar in rule reference: <arg>.<arg2>"

NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::= 
"rule <arg2> is not defined in grammar <arg>"

TOKEN_ALIAS_CONFLICT(arg,arg2) ::= 
"cannot alias <arg>; string already assigned to <arg2>"

TOKEN_ALIAS_REASSIGNMENT(arg,arg2) ::= 
"cannot alias <arg>; token name already assigned to <arg2>"

TOKEN_VOCAB_IN_DELEGATE(arg,arg2) ::= 
"tokenVocab option ignored in imported grammar <arg>"

INVALID_IMPORT(arg,arg2) ::= 
"<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar <arg2.name>"

IMPORTED_TOKENS_RULEEMPTY(arg,arg2) ::= 
"no lexer rules contributed to <arg> from imported grammar <arg2>"

IMPORT_NAME_CLASH(arg,arg2) ::= 
"combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate <arg2.recognizerName>; import ignored"

AST_OP_IN_ALT_WITH_REWRITE(arg,arg2) ::= 
"rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"

WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"

CONFLICTING_OPTION_IN_TREE_FILTER(arg,arg2) ::= "option <arg>=<arg2> conflicts with tree grammar filter mode"

ILLEGAL_OPTION_VALUE(arg,arg2) ::= "value '<arg2>' invalid for option <arg>"

ALL_OPS_NEED_SAME_ASSOC(arg) ::= "all operators of alt <alt> of left-recursive rule must have same associativity"

RANGE_OP_ILLEGAL(arg) ::= "the .. range operator isn't allowed in parser rules"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::= 
""
Decision can match input such as "<input>" using multiple alternatives:
\[
\textsc{paths}: \{ \textit{it} \mid \textit{alt} \ \textit{it.alt} \text{ via NFA path } \textit{it.states}; \text{ separator="","} > \textit{un} \} > \\
\textsc{else}
\]
Decision can match input such as "<input>" using multiple alternatives: \textsc{conflictingAlts}; separator="", \\
\textsc{endif}
\[
\textsc{if}(\text{disabled}) \textsc{else} )\text{As a result, alternative(s) } \textsc{disabled}; \text{ separator="","} > \text{were disabled for that} \\
\text{input}<\textsc{endif}>\text{if}(\text{hasPredicateBlockedByAction})\textsc{else} \text{Semantic predicates were present but were hidden by} \\
\text{actions.}<\textsc{endif}>
\]

\[
\textsc{DANGLING\_STATE}(\textsc{danglingAlts}, \text{input}) ::= << \\
\text{the decision cannot distinguish between alternative(s) } \textsc{danglingAlts}; \text{ separator="","} > \text{for input such as } "<input>" \\
\>
\]

\[
\textsc{UNREACHABLE\_ALTS}(\textsc{alts}) ::= << \\
The following alternatives can never be matched: \textsc{alts}; separator="", \\
\>
\]

\[
\textsc{INSUFFICIENT\_PREDICATES}(\textit{upon}, \textsc{altToLocations}, \textsc{hasPredicateBlockedByAction}) ::= << \\
Input such as "<upon>" is insufficiently covered with predicates at locations: \textsc{altToLocations}.keys:{\textit{alt}|\text{<alt <alt>:} \\
\textsc{altToLocations}.(\textit{alt}):{\text{loc} \mid \text{line } \textit{loc.line}:<\textit{loc.column} \text{ at } \textit{loc.text} \}; \text{ separator="","} > \text{}; \text{ separator="",} \\
"}>\text{if}(\text{hasPredicateBlockedByAction})\textsc{else} \text{Semantic predicates were present but were hidden by actions.}<\textsc{endif}>
\]

\[
\textsc{DUPLICATE\_SET\_ENTRY}(\textsc{arg}) ::= \\
\text{"duplicate token type } \textsc{arg} \text{ when collapsing subrule into set"}
\]

\[
\textsc{ANALYSIS\_ABORTED}(\textit{enclosingRule}) ::= << \\
\text{ANTLR could not analyze this decision in rule } \textit{enclosingRule}; \text{ often this is because of recursive rule references} \\
\text{visible from the left edge of alternatives. } \text{ANTLR will re-analyze the decision with a fixed lookahead of } k=1. \\
\text{Consider using } \text{"options } \{k=1;\} \text{" for that decision and possibly adding a syntactic predicate.} \\
\>
\]

\[
\textsc{RECURSION\_OVERLOW}(\textit{alt}, \textit{input}, \textsc{targetRules}, \textsc{callSiteStates}) ::= << \\
Alternative <\textit{alt}>: after matching input such as <\textit{input}> decision cannot predict what comes next due to recursion \\
overflow <\textsc{targetRules},\textsc{callSiteStates}:\{t,c|t \to c \text{ from } <c:{s|<s.\text{enclosingRule}>};\text{ separator="",}\} > ; \text{ separator="", and } \\
\>
\]

\[
\textsc{LEFT\_RECURSION}(\textsc{targetRules}, \textit{alt}, \textsc{callSiteStates}) ::= << \\
Alternative <\textit{alt} > discovers infinite left-recursion <\textsc{targetRules},\textsc{callSiteStates}:\{t,c|t \to c \text{ from} \\
<\textit{c}:\{s|<s.\text{enclosingRule}>};\text{ separator="",}\} > ; \text{ separator="", and } \\
\>
\]

\[
\textsc{UNREACHABLE\_TOKENS}(\textsc{tokens}) ::= << \\
The following token definitions can never be matched because prior tokens match the same input: <\textsc{tokens}; \\
\text{ separator="",}\>
\>
\]
TOKEN_NONDETERMINISM(input, conflictingTokens, paths, disabled, hasPredicateBlockedByAction) ::= 
<<
  <if(paths)>
  Decision can match input such as "<input>" using multiple alternatives:
  <paths: { it | alt <it.alt> via NFA path <it.states; separator="",">\n>}
  <else>
  Multiple token rules can match input such as "<input>": <conflictingTokens; separator="",">\n  <endif>
  <if(disabled)><\n>As a result, token(s) <disabled; separator="","> were disabled for that
  input<endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by
  actions.<endif>
>>

LEFT_RECURSION_CYCLES(listOfCycles) ::= <<
The following sets of rules are mutually left-recursive <listOfCycles:{c | [<c:{r|<r.name>}; separator="",">]; separator=" and "]}; separator="" and ">
>>

NONREGULAR_DECISION(ruleName, alts) ::= <<
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts; separator="",">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.
>>

/* 110n for message levels */
warning() ::= "warning"
error() ::= "error"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-
jar/org/antlr/tool/templates/messages/languages/en.stg
No license file was found, but licenses were detected in source scan.

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*/
group junit;

classHeader(header,junitFileName,hasTreeAdaptor,treeAdaptorPath,
hasPackage,packagePath,lexerPath,parserPath,treeParserPath,isTreeGrammar) ::= <<
<header>
import org.antlr.gunit.gUnitBaseTest;

public class <junitFileName> extends gUnitBaseTest {

public void setUp() {
    <if(hasTreeAdaptor)><	><	>this.treeAdaptorPath = "<treeAdaptorPath>";<endif>
    <if(hasPackage)><	><	>this.packagePath = "<packagePath>";<endif>
    this.lexerPath = "<lexerPath>";
    this.parserPath = "<parserPath>";
    <if(isTreeGrammar)><	><	>this.treeParserPath = "<treeParserPath>";<endif>
}

>}

testTreeRuleMethod(methodName,testTreeRuleName,testRuleName,test,tokenType,expecting) ::= <<
public void <methodName>() throws Exception {
    // gunit test on line <test.line>
    Object retval = execTreeParser(<testTreeRuleName>, <testRuleName>, "<test.inputEscaped>", <test.isFile>);
    Object actual = examineExecResult(<tokenType>, retval);
    Object expecting = <expecting>;
    assertEquals("testing rule "+<testTreeRuleName>, expecting, actual);
}

>}

testTreeRuleMethod2(methodName,testTreeRuleName,testRuleName,test,returnType,expecting) ::= <<
public void <methodName>() throws Exception {
    // gunit test on line <test.line>
    <returnType> retval = (<?<returnType>?>)execTreeParser(<testTreeRuleName>, <testRuleName>,
    "<test.inputEscaped>", <test.isFile>);
    Object actual = examineExecResult(<tokenType>, retval);
    Object expecting = <expecting>;
    assertEquals("testing rule "+<testTreeRuleName>, expecting, actual);
}

>}}

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assertTrue("testing rule "+<testTreeRuleName>, <expecting>);
} \n\n\n>>

testRuleMethod(isLexicalRule,methodName,testRuleName,test.tokenType,expecting) ::= <<
public void <methodName>() throws Exception {
    // gunit test on line <test.line>
    Object retval = <if(isLexicalRule)>execLexer<else>execParser<endif>(<testRuleName>, <test.line>,
    ", <test.isFile>");
    Object actual = examineExecResult(<tokenType>, retval);
    Object expecting = <expecting>;
    assertEquals("testing rule "+<testRuleName>, expecting, actual);
} \n\n\n>>

testRuleMethod2(methodName,testRuleName,test,returnType,expecting) ::= <<
public void <methodName>() throws Exception {
    // gunit test on line <test.line>
    <returnType> retval = (<returnType>)execParser(<testRuleName>, <test.line>, "<test.inputEscaped>", <test.isFile>");
    assertTrue("testing rule "+<testRuleName>, <expecting>);
} \n\n\n>>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/gunit/junit.stg
No license file was found, but licenses were detected in source scan.

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/**
* The API version of the runtime that recognizers generated by this runtime need.
*/
apiVersion() ::= "1"

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "True":"true",
    "False":"false",
    "true":"true",
    "false":"false",
    default:"false"
]

/**
* The overall file structure of a recognizer; stores methods for rules and cyclic DFAs plus support code.
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions, docComment, recognizer, name, tokens, tokenNames, rules, cyclicDFAs, bitsets, buildTemplate, buildAST, rewriteMode, profile, backtracking, synpreds, memoize, numRules, fileName, ANTLRVersion, generatedTimestamp, trace, scopes, superClass, literals) ::= <<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<@imports>
import sys
from antlr3 import *
<if(TREE_PARSER)>
from antlr3.tree import *
@end>
from antlr3.compat import set, frozenset
<actions.(actionScope).header>
# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{it | <it.name>=<it.type>}; separator="\n">
grammarFileName = "<fileName>"
api_version = <apiVersion()>

def __init__(self<grammar.delegators:{g|, <g:delegateName()>}>), input=None, state=None):
    if state is None:
        state = RecognizerSharedState()
        super(<grammar.recognizerName>, self).__init__(input, state)

    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        self._state.ruleMemo = {}
    <endif>
    <endif>

    <grammar.directDelegates:
        [g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input, state)); separator="\n">;

    <grammar.directDelegates:
        [g|<g.delegates:{h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName()>}; separator="\n">]; separator="\n">

    <grammar.delegators:
        [g|self.<g:delegateName()> = <g:delegateName()>]; separator="\n">

    <last(grammar.delegators):
        [g|self.gParent = <g:delegateName()>]; separator="\n">

    self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", ">

    <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">;

    <actions.lexer.init>

    <actions.lexer.members>

    <if(filterMode)>
    <filteringNextToken()>
    <endif>

    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>;

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

    >>

    /** A override of Lexer.nextToken() that backtracks over mTokens() looking
     * for matches. No error can be generated upon error; just rewind, consume
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return self.makeEOFToken()

    self._state.token = None
    self._state.channel = DEFAULT_CHANNEL
    self._state.tokenStartCharIndex = self.input.index()
    self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
    self._state.tokenStartLine = self.input.line
    self._state._text = None
    try:
        m = self.input.mark()
        try:
            # means we won't throw slow exception
            self._state.backtracking = 1
            try:
                self.mTokens()
            finally:
                self._state.backtracking = 0
        except BacktrackingFailed:
            # mTokens backtracks with synpred at backtracking==2
            # and we set the synpredgate to allow actions at level 1.
            self.input.rewind(m)
            self.input.consume() # advance one char and try again
    except RecognitionException, re:
        # shouldn't happen in backtracking mode, but...
        self.reportError(re)
        self.recover(re)

    try:
        self.emit()
    return self._state.token

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        super(<grammar.recognizerName>, self).memoize(input, ruleIndex, ruleStartIndex, success)
```python
def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super(<grammar.recognizerName>, self).alreadyParsedRule(input, ruleIndex)
    return False

actionGate() ::= "self._state.backtracking == 0"
filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, labelType, members,
    rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
    <if(grammar.grammarIsRoot)>
    # token names
    tokenNames = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
        <tokenNames; wrap, separator="", "">
    ]<\n>
    <else>
    from <grammar.composite.rootGrammar.recognizerName> import tokenNames
    <\n>
    <endif>
    <scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}>[
    <grammar.directDelegates:
        {g|from <g.recognizerName> import <g.recognizerName>}; separator="\n">[
    <rules:{it|<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}>
    ]
    class <grammar.recognizerName>(<@superClassName><superClass><@end>):
        grammarFileName = "<fileName>"
        api_version = <apiVersion()>
        tokenNames = tokenNames
        def __init__(self<grammar.delegators:{g|, <g:delegateName()}>>, input, state=None, *args, **kwargs):
            if state is None:
                state = RecognizerSharedState()
            <@args()>
            super(<grammar.recognizerName>, self).__init__(input, *args, **kwargs)
        <if(memoize)>
        <if(grammar.grammarIsRoot)>
        self._state.ruleMemo = {}
        </if>
```
<cyclicDFAs: {dfa | <cyclicDFAINit(dfa)>}; separator="\n">
parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
   ASTLabelType="Object", superClass="Parser", labelType="Token",
   members=[<actions.parser.members>],
   init=[<actions.parser.init>]
 ) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   bitsets, "TokenStream", superClass,
   labelType, members, "Token",
   false, init, ASTLabelType)>
>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
   numRules, bitsets, filterMode, labelType=[<ASTLabelType>], ASTLabelType="Object",
   superClass= [<if(filterMode)<if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>],
   members=[<actions.treeparser.members>],
   init=[<actions.treeparser.init>]
 ) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
   bitsets, "TreeNodeStream", superClass,
   labelType, members, "Node",
   filterMode, init, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc..., just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
   # $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope()>):
      <ruleLabelDefs()>
      <if(trace>)
         self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
      try:
         <block>
finally:
    self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)

<else>
    <block>
    </endif>
# $ANTLR end "<ruleName>"

>>

synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    <@start()>
    start = self.input.mark()
    try:
        self.<name>_fragment()
    except BacktrackingFailed:
        success = False
    else:
        success = True
    self.input.rewind(start)
    <@stop()>
    self._state.backtracking -= 1
    return success

>>

lexerSynpred(name) ::= <<
<synpred(name)>

>>

ruleMemoization(name) ::= <<
<if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>
    <endif>

/* This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if self._state.backtracking > 0:
raise BacktrackingFailed

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>
# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<if(trace>)
    self.traceIn("<ruleName>", <ruleDescriptor.index>)
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
@@preamble()@@body><ruleBody()><@end>
@@postamble()return <ruleReturnValue()>

# $ANTLR end "<ruleName>"
>>

ruleBody() ::= <<
<if(memoize)>
<if(backtracking)>
success = False
<endif>
<endif>
try:
    try:
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()></(ruleDescriptor.actions.after):execAction()>

        <if(memoize)>
        <if(backtracking)>
success = True
<endif>
<endif>
<endif>
try:
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()></(ruleDescriptor.actions.after):execAction()>

    <if(memoize)>
    <if(backtracking)>
success = True
<endif>
<endif>
<if(exceptions>)
  <exceptions:{e|catch(decl=e.decl,action=e.action)<
  }>
<else>
<if(!emptyRule)
<if(actions.(actionScope).rulecatch)
  <actions.(actionScope).rulecatch>
<else>
  except RecognitionException, re:
    self.reportError(re)
    self.recover(self.input, re)
    #@setErrorReturnValue()
<endif>
<else>
finally:
  pass
<endif>
<endif>
<endif>
finally:
<if(trace)
  self.traceOut("<ruleName>", <ruleDescriptor.index>)<
</endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
  pass
>>
catch(decl,action) ::= <<
except <e.decl>:
  <e.action>
>>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
  retval = self.<ruleDescriptor.name>_return()
  retval.start = self.input.LT(1)<
</endif>
<elseif(ruleDescriptor.returnScope)
  <ruleDescriptor.returnScope.attributes:{ a |
    <a.name> = <if(a.initValue)<a.initValue><else>None</endif>
    >
  }</a.initValue><else>None</endif>
  ]
<endif>
<if(memoize)>
  <ruleDescriptor.name>_StartIndex = self.input.index()
<endif>
>>
ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it | self.<it>_stack.append(<it>_scope())); separator="\n">}
<ruleDescriptor.ruleScope:{it | self.<it.name>_stack.append(<it.name>_scope())); separator="\n">}}

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it | self.<it>_stack.pop(); separator="\n">}
<ruleDescriptor.ruleScope:{it | self.<it.name>_stack.pop(); separator="\n">}}

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels>{it | <it.label.text> = None}; separator="\n">,
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]{it | list_<it.label.text> = None}; separator="\n">,
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">,
<ruleDescriptor.ruleListLabels:{it | <it.label.text> = None}; separator="\n">}}

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.ruleLabels>{it | <it.label.text> = None}; separator="\n">,
<ruleDescriptor.charLabels:{it | <it.label.text> = None}; separator="\n">,
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels>{it | list_<it.label.text> = None}; separator="\n">,
<ruleDescriptor.ruleListLabels:{it | <it.label.text> = None}; separator="\n">}}

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>
ruleCleanUp() := <<
<if(ruleDescriptor.hasMultipleReturnValues>
<if(!TREE_PARSER>)
retval.stop = self.input.LT(-1)<
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize>)
<if(backtracking>)
if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<if(trace>)
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<if(memoize)> 
<if(backtracking>)
    success = False<
<endif>
<endif> 
try:
<if(nakedBlock)>
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    <block><
<else>
    _type = <ruleName>
    _channel = DEFAULT_CHANNEL

    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
self._state.type = _type
self._state.channel = _channel
<ruleDescriptor.actions.after):execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
success = True\n<endif>
<endif>

finally:
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)\n<endif>
<ruleScopeCleanUp()>
<memoize()>
    pass

# $ANTLR end "<ruleName>"*

>>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block>\n
// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
    # <fileName>::<description>
    alt<decisionNumber> = <maxAlt>
    <decls>
    #@body><blockBody()></@end>
>>

blockBody() ::= <<
    #@predecision()>
    #@decision><decision></@end>
/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  alt<decisionNumber> = <maxAlt>
  <decls>
  @predecision()
  @decision><decision><@end>
  @postdecision()
  <alts:{a | <altSwitchCase(i, a)>}; separator="\nel">
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>::<description>
  <decls>
  @prealt()
  <alts>
  @postalt()
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
  # <fileName>::<description>
  <decls>
  @prealt()
  <alts>
  @postalt()
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  cnt<decisionNumber> = 0
  <decls>
  @preloop()
  @loopBody>
  <positiveClosureBlockLoop()>
  @end>
  @postloop()
>>

positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  @@predecision()  
  @@decisionBody<decision>@end  
  @@postdecision()  
  <alts:{a | <altSwitchCase(i, a)> }; separator="\nel">  
  else:
    if cnt<decisionNumber> >= 1:
      break #loop<decisionNumber>  
    <ruleBacktrackFailure()>
    eee = EarlyExitException(<decisionNumber>, self.input)
    @@earlyExitException()  
    raise eee
  cnt<decisionNumber> += 1
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock
/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
  # <fileName>::<description>
  <decls>
  @@preloop()
  @@loopBody
closureBlockLoop()@@end
  @@postloop()
>>
closureBlockLoop() ::= <<
  while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
    @@predecision()  
    @@decisionBody<decision>@end  
    @@postdecision()  
    <alts:{a | <altSwitchCase(i, a)> }; separator="\nel">  
    else:
      break #loop<decisionNumber>
>>
closureBlockSingleAlt ::= closureBlock
/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative number. A DFA predicts the alternative and then a simple switch does the jump to the code that actually matches that alternative. */
altSwitchCase(altNum, alt) ::= <<
if alt<decisionNumber> == <altNum>:
  @@prealt()
  <alt>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements, altNum, description, autoAST, outerAlt, treeLevel, rew) ::= <<
  # <fileName>:<description>
pass <! so empty alternatives are a valid block !>
  @@declarations()
  <elements:element()>
  <rew>
  @@cleanup()
>>

/** What to emit when there is no rewrite. For auto build mode, does nothing. */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// ELEMENTS

/** Dump the elements one per line */
element(e) ::= <<
  @@prematch()
  <e.el><
>>

/** match a token optionally with a label in front */
tokenRef(token, label, elementIndex, terminalOptions={}) ::= <<
  <if(label)><label> = <endif>self.match(self.input, <token>, self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token, label, elementIndex, terminalOptions={}) ::= <<
  <tokenRef(token, label, elementIndex, terminalOptions)>
  <listLabel(label, label)>
>>
listLabel(label, elem) ::= <<
if list_<label> is None:
list_<label> = []
list_<label>.append(<elem>)<\n>
>>
/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
self.input.consume()
<postmatchCode>
<if(!LEXER)>
self._state.errorRecovery = False<\n>
<endif>
else:
<ruleBacktrackFailure()>
mse = MismatchedSetException(None, self.input)
<@mismatchedSetException()>
<if(LEXER)>
self.recover(mse)
raise mse
<else>
raise mse
<! use following code to make it recover inline; remove throw mse;
self.recoverFromMismatchedSet(
self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
)

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matchRuleBlockSet ::= matchSet

matchSetAndListLabel\(s, label, elementIndex, postmatchCode\) ::= <<
  matchSet(...)>
  <listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef\(string, label, elementIndex="0"\) ::= <<
  <if(label)>
    <label>Start = self.getCharIndex()
    self.match\(<string>\)
    <label>StartLine<elementIndex> = self.getLine()
    <label>StartCharPos<elementIndex> = self.getCharPositionInLine()
    <label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
      start=<label>Start, stop=self.getCharIndex()-1)
    <label>.setLine(<label>StartLine<elementIndex>)
    <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
  <else>
    self.match\(<string>\)
  <endif>
>>

wildcard\(token, label, elementIndex, terminalOptions={}\) ::= <<
  <if(label)>
    <label> = self.input.LT(1)</label>
  <endif>
  self.matchAny(self.input)
>>

wildcardAndListLabel\(token, label, elementIndex, terminalOptions={}\) ::= <<
  <wildcard(...)>
  <listLabel(label, label)>
>>

/** Match . wildcard in lexer */
wildcardChar\(label, elementIndex\) ::= <<
  <if(label)>
    <label> = self.input.LA(1)
  <endif>
  self.matchAny()
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule, label, elementIndex, args, scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)> <label> = <endif> self.<if(scope)> <scope:delegateName()>.<endif> <rule.name>(<args; separator=", ">)<\n>
self._state.following.pop()
>>

/** ids+=rule */
ruleRefAndListLabel(rule, label, elementIndex, args, scope) ::= <<
<ruleRef(rule, label, elementIndex, args, scope)>
<listLabel(label, label)>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule, label, args, elementIndex, scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)> <scope:delegateName()>.<endif> m<rule.name>(<args; separator=", ">)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
input=self.input,
type=INVALID_TOKEN_TYPE,
channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>,
stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.<if(scope)> <scope:delegateName()>.<endif> m<rule.name>(<args; separator=", ">)
<endif>
>>
lexerRuleRefAndListLabel(rule, label, args, elementIndex, scope) ::= «
<lexerRuleRef(rule, label, args, elementIndex, scope)>
<listLabel(label, label)>
»

lexerMatchEOF(label, elementIndex) ::= «
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=self.getCharIndex(), stop=self.getCharIndex()-1)
<label>.setLabel(<label>StartLine<elementIndex>, <label>StartCharPos<elementIndex>)
<else>
self.match(EOF)
<endif>
»

// used for left-recursive rules
recRuleDefArg() ::= "<recRuleArg()>
recRuleArg() ::= "_p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> \<\< opPrec>"
recRuleSetResultAction() ::= "root_0 = $<ruleName>_primary.tree"
recRuleSetReturnAction(src, name) ::= "$<name> = $<src>.<name>"

tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= «
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)
<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<endif>
»

/** Every predicate is used as a validating predicate (even when it is
validateSemanticPredicate(pred, description) ::= <<
if not (<evalPredicate(pred, description)>):
    <ruleBacktrackFailure()>
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")
>>

// Fixed DFA (if-then-else)

dfaState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\nel">
else:
    if(eotPredictsAlt)
        alt<decisionNumber> = <eotPredictsAlt>
    else
        <ruleBacktrackFailure()>
        nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)
        #@noViableAltException()
        raise nvae
    <endif>
>>

/** Same as a normal DFA state except that we don't examine lookahead
   * for the bypass alternative. It delays error detection but this
   * is faster, smaller, and more what people expect. For (X)? people
   * expect "if ( LA(1)==X ) match(X);" and that's it.
   */

dfaOptionalBlockState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\nel">
>>

/** A DFA state that is actually the loopback decision of a closure
   * loop. If end-of-token (EOT) predicts any of the targets then it
   * should act like a default clause (i.e., no error can be generated).
   * This is used only in the lexer so that for ('a')* on the end of a rule
   * anything other than 'a' predicts exiting.
   */

daLoopbackState(k, edges, eotPredictsAlt, description, stateNumber, semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)
<edges; separator="\nel">
@if(eotPredictsAlt)
    <if(!edges)>
    alt<decisionNumber> = <eotPredictsAlt>  <! if no edges, don't gen ELSE !>
    <else>
    alt<decisionNumber> = <defaultPred>
    <else>
else:
    alt<decisionNumber> = <eotPredictsAlt>
    <un>
    <endif>
    <endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
    <targetState>
>>

// F i x e d  D F A  (switch case)

// F i x e d  D F A  (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
!FIXME: this is one of the few occasion, where I miss a switch statement
in Python. ATM this is implemented as a list of if .. elif ..
This may be replaced by faster a dictionary lookup, when I find a solution
for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
    <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>
    <else>
        <ruleBacktrackFailure()>
        nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<
        <@noViableAltException()>
        raise nvae<
    <endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">

---

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```python
def dfaLoopbackStateSwitch(k, edges, eotPredictsAlt, description, stateNumber, semPredState):
    LA<decisionNumber> = self.input.LA(<k>)
    <edges; separator="\n">  
    <if(eotPredictsAlt)>
        alt<decisionNumber> = <eotPredictsAlt>
    <else>
        alt<decisionNumber> = <eotPredictsAlt>
    <endif>

def dfaEdgeSwitch(labels, targetState):
    if <labels:{it | LA<decisionNumber> == <it>}; separator=" or ">
        <targetState>

def dfaDecision(decisionNumber, description):
    alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)

def cyclicDFA(dfa):
    # lookup tables for DFA #<dfa.decisionNumber>

    DFA<dfa.decisionNumber>._eot = DFA.unpack(
        u"<dfa.javaCompressedEOT; wrap="\n        u" >"
    )

    DFA<dfa.decisionNumber>._eof = DFA.unpack(
        u"<dfa.javaCompressedEOF; wrap="\n        u" >"
    )

    DFA<dfa.decisionNumber>._min = DFA.unpack(
        u"<dfa.javaCompressedMin; wrap="\n        u" >"
    )
```

---

// Cyclic DFA

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

dfaDecision(decisionNumber, description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>._eot = DFA.unpack(
    u"<dfa.javaCompressedEOT; wrap="\n    u" >"
)

DFA<dfa.decisionNumber>._eof = DFA.unpack(
    u"<dfa.javaCompressedEOF; wrap="\n    u" >"
)

DFA<dfa.decisionNumber>._min = DFA.unpack(
    u"<dfa.javaCompressedMin; wrap="\n    u" >"
)
DFA<dfa.decisionNumber>_max = DFA.unpack(  
  u"<dfa.javaCompressedMax; wrap=""\n    u"">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(  
  u"<dfa.javaCompressedAccept; wrap=""\n    u"">"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(  
  u"<dfa.javaCompressedSpecial; wrap=""\n    u"">"
)

DFA<dfa.decisionNumber>_transition = [  
  <dfa.javaCompressedTransition:{s|DFA.unpack(u"<s; wrap=""\n    u"">")}; separator="",\n">  
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
  pass

  #@errorMethod()

@if(dfa.specialStateSTs):
  def specialStateTransition(self_, s, input):
    # convince pylint that my self_ magic is ok ;)
    # pylint: disable-msg=E0213
    # pretend we are a member of the recognizer
    # thus semantic predicates can be evaluated
    self = self_.recognizer

    _s = s

    <dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
    <state}>}; separator="\nel">

@if(backtracking):
  if self._state.backtracking > 0:
    raise BacktrackingFailed

@endif
  nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
  self._error(nvae)
  raise nvae
@endif
cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>._eot,
    eof = self.DFA<dfa.decisionNumber>._eof,
    min = self.DFA<dfa.decisionNumber>._min,
    max = self.DFA<dfa.decisionNumber>._max,
    accept = self.DFA<dfa.decisionNumber>._accept,
    special = self.DFA<dfa.decisionNumber>._special,
    transition = self.DFA<dfadecisionDecisionNumber>._transition
)<
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
    LA<decisionNumber>_<stateNumber> = input.LA(1)<
    <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
    index<decisionNumber>_<stateNumber> = input.index()
    input.rewind()<
    <endif>
    s = -1
    <edges; separator="\n">
    <if(semPredState)> <! return input cursor to state before we rewound !>
    input.seek(index<decisionNumber>_<stateNumber>)<
    <endif>
    if s >= 0:
        return s
    >>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
    if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
        s = <targetStateNumber><
    >>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
    se:
    s = <targetStateNumber><
    >>
// DFA EXPRESSIONS

andPredicates(left, right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "(<operands; separator=" or ">)"

notPredicate(pred) ::= "not (<evalPredicate(pred, {})>"

evalPredicate(pred, description) ::= "(<pred>)"

evalSynPredicate(pred, description) ::= "self.<pred>()"

lookaheadTest(atom, k, atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/

isolatedLookaheadTest(atom, k, atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= <%
(\<lower> \<= LA<decisionNumber>_<stateNumber> \<= \<upper>)%

%

isolatedLookaheadRangeTest(lower, upper, k, rangeNumber, lowerAsInt, upperAsInt) ::= "(<lower> \<=
self.input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=" or ">

// ATTRIBUTES

globalAttributeScopeClass(scope) ::= <<
  <if(scope)>
  <if(scope.attributes)>
  class <scope.name>_scope(object):
    def __init__(self):
      <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

  <endif>
  <endif>
>>

globalAttributeScopeStack(scope) ::= <<
  <if(scope)>
  <if(scope.attributes)>
  self.<scope.name>._stack = []

  <endif>
  <endif>
>>
```python
ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="n">
<endif>
<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>

returnStructName(r) ::= "<r.name>_return"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
    def __init__(self):
        super(<grammar.recognizerName>,<ruleDescriptor:returnStructName()>, self).__init__()
        <scope.attributes:{it | self.<it.decl> = None}; separator="n">
    @ruleReturnInit()
```

<@ruleReturnMembers()>

>>&

parameterScope(scope) ::= <<
@if(scope)<<scope.attributes:{it | <it.decl>}; separator=" "; >><endif>
>>&

parameterAttributeRef(attr) ::= "<attr.name>
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
@if(negIndex)self.<scope>_stack[-<negIndex>].<attr.name>
<else>
@if(index)self.<scope>_stack[<index>].<attr.name>
<else>self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
%>

/* not applying patch because of bug in action parser!

@if(negIndex)
((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None][0]
<else>
@if(index)
((<index> < len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None][0]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None][0]
<endif>
<endif>
*/

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
@if(negIndex)<!FIXME: this seems not to be used by ActionTranslator...!>
s elf.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
@if(index)<!FIXME: this seems not to be used by ActionTranslator...!>
s elf.<scope>_stack[<index>].<attr.name> = <expr>
<else>self.<scope>_stack[-1].<attr.name> = <expr>
%>
/** $x$ is either global scope or $x$ is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like ${\$function.size()>0 \&\& \$function::name.equals("foo")}$?
*/
isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
  <if(referencedRule.hasMultipleReturnValues)>
    ((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
  <else>
    <scope>
  <endif>
<%>
returnAttributeRef(ruleDescriptor,attr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name>
  <else>
    <attr.name>
  <endif>
<%>
returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
  <if(ruleDescriptor.hasMultipleReturnValues)>
    retval.<attr.name> = <expr>
  <else>
    <attr.name> = <expr>
  <endif>
<%>

/** How to translate $tokenLabel$ */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids}$ or e+=expr {$e}$ */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"

tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"

tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"

tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"

ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"

ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"

ruleLabelPropertyRef_text(scope,attr) ::= "<%

<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
   self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
   self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
) or [None])[0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None])[0]
<endif>
%

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)?
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"
// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= "<if(backtracking)>" 
<if(actions.(actionScope).synpredgate)> 
if <actions.(actionScope).synpredgate>: 
    pass 
    <action> 
<else> 
if <actions.(actionScope).synpredgate>: 
    pass 
    <action> 
<endif> 
<else> 
    #action start 
    <action> 
    #action end 
<endif> >>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...) 

codeFileExtension() ::= ".py" 
true_value() ::= "True" 
false_value() ::= "False"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Python/Python.stg

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

@@@File.imports() ::= <<
<@super.imports()>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

@@@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
  new string[]
  {
  "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n", separator="", ">
  };

<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
<ctorForProfilingRootGrammar()>
<else>
<ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>}>.RuleLevel; } }
public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>}>.DecRuleLevel(); }
<ctorForDelegateGrammar()>
<endif>
<if(profile>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return base.AlreadyParsedRule(input, ruleIndex);
}
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
bases.Memoize(input, ruleIndex, ruleStartIndex);
}
</if>
protected virtual bool EvalPredicate( bool result, string predicate )
{
dbg.SemanticPredicate( result, predicate );
return result;
}
ctorForRootGrammar() ::= <<
<! bug: can't use @super.members() cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, int port,
RecognizerSharedState state )
: base( input, state )
{
<createListenerAndHandshake()>

Open Source Used In Crosswork Common EMS Services 4.0.0 7786
_ctorForProfilingRootGrammar() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{

<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">
<parserCtorBody()>
</@finally()>
}
<stdio>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
_ctorForDelegateGrammar() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g:delegateName()>}> )
: base( input,dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{g|, <g:delegateName()>}> );}; separator="\n">
<parserCtorBody()>
</@finally()>
}
<stdio>
>>

c_ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg )
</@superClassRef>: base( input,dbg, new RecognizerSharedState() )</@end>
{
@if(profile>
Profiler p = (Profiler)dbg;
}
createListenerAndHandshake() ::= <<
@if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
@endif>
DebugListener = proxy;
try
{
    proxy.Handshake();
}
catch ( IOException ioe )
{
    ReportError( ioe );
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName>"

/*@*
* Much of the following rules were merged into CSharp3.stg.
*/

@rule.preamble() ::= <<
if (RuleLevel == 0)
    DebugListener.Commence();
    IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
//    //dbg.EnterRule( GrammarFileName, ",<ruleName>" );
//    //if ( RuleLevel == 0 )
//    //{
//        //dbg.Commence();
//    //}
//    //IncRuleLevel();
//    //dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );
//}>
//>>
@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
DebugListener.Terminate();
>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
//}
//finally
//{
//dbg.ExitRule( GrammarFileName, "<ruleName>" );
//DecRuleLevel();
//if ( RuleLevel == 0 )
//{
//dbg.Terminate();
//}
//]<n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{
//dbg.EnterSubRule( <decisionNumber> );<n>
//}}
//exitSubRule() ::= <<
//}
//finally
//{
//dbg.ExitSubRule( <decisionNumber> );
//}<n>
//>>

//enterDecision() ::= <<
//try
//{
//dbg.EnterDecision( <decisionNumber> );<n>
//}}
//exitDecision() ::= <<
//}
//finally
//{
//dbg.ExitDecision( <decisionNumber> );
//}
//

// enterAlt(n) ::= "dbg.EnterAlt( <n> );<\n>"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()><enterDecision()>"
//@ruleBlock.predecision() ::= "<enterDecision()>"
//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n="1")>
//@blockSingleAlt.prealt() ::= "<enterAlt(n="1")>
//@positiveClosureBlock.preloop() ::= "<enterSubRule()>
//@positiveClosureBlock.postloop() ::= "<exitSubRule()>
//@positiveClosureBlock.predecision() ::= "<enterDecision()>"
//@positiveClosureBlock.postdecision() ::= "<exitDecision()>"
//@positiveClosureBlock.earlyExitException() ::= 
	"dbg.RecognitionException( eee<decisionNumber> );<\n>"
//@closuresBlock.preloop() ::= "<enterSubRule()>
//@closuresBlock.postloop() ::= "<exitSubRule()>
//@closuresBlock.predecision() ::= "<enterDecision()>"
//@closuresBlock.postdecision() ::= "<exitDecision()>"
//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"
//@element.prematch() ::= 
	"dbg.Location( <it.line>, <it.pos> );"
//@matchSet.mismatchedSetException() ::=
"dbg.RecognitionException( mse );"

//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"
//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//dfaDecision(decisionNumber,description) ::= <<<
//try
//{
//isCyclicDecision = true;
//<super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
//dbg.RecognitionException( nvae );
//throw nvae;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<<
//public override void Error( NoViableAltException nvae )
//{
//((DebugParser)recognizer).dbg.RecognitionException( nvae );
//}
//>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<<
EvalPredicate(<pred>, "<description>")
>>

Found in path(s):

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*/

group Delphi;

csharpTypeInitMap ::= [
  "int": "0",
  "uint": "0",
  "long": "0",
  "ulong": "0",
  "float": "0.0",
  "double": "0.0",
  "bool": "False",
  "byte": "0",
  "sbyte": "0",
  "short": "0",
  "ushort": "0",
  "char": "#0",
  "string": "\\\",
  "String": "\\\",
  default: "nil" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 * LEXER (Boolean): should we generate lexer code?
 * PARSER (Boolean): should we generate parser code?
 * TREE_PARSER (Boolean): should we generate tree parser code?
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope
 * actions (HashMap):
 * docComment (String): document comment
 * recognizer (Object): recognizer class generator
 * name (String): name of grammar
 * tokens (HashMap<name: String, type: Integer>):
* tokenNames:
* rules:
* cyclicDFAs:
* bitsets:
  * buildTemplate (Boolean): should we generate a string template?
  * buildAST (Boolean): should we generate an AST?
  * rewriteMode (Boolean): are we rewritering nodes?
  * profile (Boolean):
  * backtracking (Boolean): backtracking mode?
  * synpreds (): syntactic predicates
  * memoize (Boolean): should we memoize?
  * numRules (Integer): number of rules
* fileName (String): fully qualified name of original .g file
* ANTLRVersion (String): ANTLR version in Major.Minor.Build format
* generatedTimestamp (String): date/time when the file is generated
* trace (Boolean): should we trace input/output?
* scopes:
  * superClass (String): name of base class, or empty string
* literals:
* outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
  docComment, recognizer,
  name, tokens, tokenNames, rules, cyclicDFAs,
  bitsets, buildTemplate, buildAST, rewriteMode, profile,
  backtracking, synpreds, memoize, numRules,
  fileName, ANTLRVersion, generatedTimestamp, trace,
  scopes, superClass, literals) ::= <<
  unit <name>;

  {$HINTS OFF}

  // $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

  <actions.(actionScope).header>

  interface

  <@imports>
  uses<n>
  <@end>
  <actions.(actionScope).usesInterface>
  <if(TREE_PARSER)>
    Antlr.Runtime.Tree,<\n  <endif>
    Antlr.Runtime,
    Antlr.Runtime.Collections,
    Antlr.Runtime.Tools;
/** Generates source code for the lexer class */

// grammar (Grammar object)

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
      filterMode, superClass="Lexer") ::= <<

  type
  I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;

t<T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
  I<grammar.recognizerName>)
strict private
  FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
  FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
  FException: ERecognitionException;
  procedure InitializeCyclicDFAs;
<cyclicDFAs:cyclicDFADeclaration()>
public
  const
<tokens:{<it.name> = <it.type>;}; separator="\n">
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}}
strict private
<actions.(actionScope).memberDeclarations>
public
  // delegates
<grammar.delegates: {g|<g:delegateName()>: I<superClass>; {<g.recognizerName>}}; separator="\n">
public
  // delegators
<grammar.delegators: {g|<g:delegateName()>: Pointer; {<g.recognizerName>}}; separator="\n">
<last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>
protected
  { IBaseRecognizer }
  function GetGrammarFileName: String; override;
<if(filterMode)>
  function AlreadyParsedRule(const Input: IIntStream;
      const RuleIndex: Integer): Boolean; override;
  procedure Memoize(const Input: IIntStream; const RuleIndex,
      RuleStartIndex: Integer); override;
protected
  { ILexer }
  function NextToken: IToken; override;\n
<endif>
protected
procedure DoTokens; override;
public
constructor Create; overload;
constructor Create(const AInput: ICharStream<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}>); overload;
constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}>); overload;

<rules: {r | <if(!r.ruleDescriptor.isSynPred)<lexerRuleDeclaration(r)><endif>}> <synpreds:{p | <lexerSynpredDeclaration(p)>}; separator="\n"> end;

implementation

uses <grammar.delegates: {g|<g.recognizerName>,}; separator="\n"> <grammar.delegators: {g|<g.recognizerName>,}; separator="\n"> <actions.(actionScope).usesImplementation> SysUtils, StrUtils, Math;

{ T<grammar.recognizerName> }
constructor T<grammar.recognizerName>.Create; begin InitializeCyclicDFAs; end;
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}>); begin Create(AInput, nil<grammar.delegators:{g|, A<g:delegateName()>}>); end;
constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}>}); begin inherited Create(AInput, AState); InitializeCyclicDFAs; { TODO: Necessary in Delphi??? Not removed yet. } <if(memoize)> <if(grammar.grammarIsRoot)> State.RuleMemoCount := <numRules>+1;<\n> <! index from 1..n !> <endif> <endif> <grammar.directDelegates:
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<dfas:{dfa | FDFA<dfa.decisionNumber> :=
TDFA<dfa.decisionNumber>.Create(Self<@debugAddition()>);}; separator="\n">
<dfas:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<dfas:cyclicDFA()> <! dump tables for all DFA !>
end.>>

lexerRuleDeclaration(rule) ::= <<
procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking * for matches. No error can be generated upon error; just rewind, consume *
a token and then try again. backtracking needs to be set as well.
* *
*/
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
  M: Integer;
begin
  while (True) do
  (*
  }
begin
  if (Input.LA(1) = Integer(cscEOF)) then
    Exit(TToken.EOF_TOKEN);

  State.Token := nil;
  State.Channel := TToken.DEFAULT_CHANNEL;
  State.TokenStartCharIndex := Input.Index;
  State.TokenStartCharPositionInLine := Input.CharPositionInLine;
  State.TokenStartLine := Input.Line;
  State.Text := '';
  try
    M := Input.Mark();
    State.Backtracking := 1; <!-- means we won't throw slow exception -->
    State.Failed := False;
    mTokens();
    State.Backtracking := 0;
    <! mTokens backtracks with synpred at backtracking==2 
    and we set the synpredgate to allow actions at level 1. 
    !>
    if (State.Failed) then
      begin
        Input.Rewind(M);
        Input.Consume; <!-- advance one char and try again -->
      end
    else
      begin
        Emit;
        Exit(State.Token);
      end
  except
    on RE: ERecognitionException do
      begin
        // shouldn't happen in backtracking mode, but...
        ReportError(RE);
        Recover(RE);
      end;
  end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
  const RuleIndex: Integer): Boolean;
begin
  if (State.Backtracking > 1) then
    Result := inherited AlreadyParsedRule(Input, RuleIndex)
  else
    Result := False;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex, RuleStartIndex: Integer);
begin
  if (State.Backtracking > 1) then
    inherited Memoize(Input, RuleIndex, RuleStartIndex);
end;

filteringActionGate() ::= "((State.Backtracking = 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, inputStreamType, superClass, filterMode,
  ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<
type
<rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>}>
I<grammar.recognizerName> = interface(I@superClassName><superClass><@end>)
<rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>}>
end;
T<grammar.recognizerName> = class(T@superClassName><superClass><@end>,
I<grammar.recognizerName>)
<if(grammar.grammarIsRoot)>
public
const
  TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = (
    '\<invalid>',
    '\<EOR>',
    '\<DOWN>',
    '\<UP>',
    <tokenNames; separator="",\">);\n
<endif>
public
const
  <tokens:{<it.name> = <it.type>;}; separator="\n">;
public
// delegates
<grammar.delegates: {g|<g:delegateName()>: I<superClass>; {<g.recognizerName}>}}; separator="\n">
public
// delegators
<grammar.delegators: {g|<g:delegateName()>: Pointer; {<g.recognizerName}>}}; separator="\n">
<last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName}>}}>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)<@end>}}
@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

class var
<bitsets:bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>

implementation

uses
<grammar.delegates: [g|g.recognizerName]>;
<grammar.delegates: [g|g.recognizerName]>;
<grammar.delegates: [g|g.recognizerName]>;
<actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

}
constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>});
begin
Create(AInput, TRrecognizerSharedState.Create<grammar.delegators:{g|, A<g:delegateName()>}>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>; const AState: IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName()>: IBaseRecognizer{<g.recognizerName>}}>;)
begin
inherited Create(AInput, AState);
@@membersConstructor
@@end
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input, State<trunc(g.delegators):{p|, <p:delegateName()>}>, Self);}; separator="\n">
<grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|gParent := Pointer(A<g:delegateName>();}>)
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)>}>}
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>}
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>
<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n"> procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler := DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n"> end;

@if(bitsets)
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)> end;
@end

@@membersImplementation
@@end

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
I: Integer;
begin
SetLength(Result, Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
  Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>';
end;

<rules; separator="\n\n">  
<synpreds:{p | <synpred(p)>>}>  
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)> initialization T<grammar.recognizerName>.InitializeBitsets;\n</if> end.>>

delegatedRuleDeclaration(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
  function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType>();\n</if>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
  function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType>();\n</if>
<else>
  procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);\n</else>
</endif> >>

delegatedRuleImplementation(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
  T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType>();\n</if>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
  T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType>();\n</if>
<else>
  procedure T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);\n</else> >>
<endif>
<endif>
begin
<if(ruleDescriptor.hasReturnValue)>Result :=<endif>
T<ruleDescriptor.grammar.recognizerName>({ruleDescriptor.grammar.delegateName()}.Implementor).<ruleDescriptor.name>({ruleDescriptor.parameterScope.attributes:[a|<a.name>]; separator="","});
end;

parserCtorBody() ::= <<
InitializeCyclicDFAs;
<if(memoize)>
<if(grammar.grammarIsRoot>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;

<endif>
<endif>
<grammar.delegators: [g|<g:delegateName()> := Pointer(A<g:delegateName()>);]; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
*  stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets, labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser", members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
*  rules created for syntactic predicates. As they never have return values
*  nor parameters etc.... just give simplest possible method. Don't do
*  any of the normal memoization stuff in here either; it's a waste.
*  As predicates cannot be inlined into the invoking rule, they need to
*  be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::= <<
// $ANTLR start "<ruleName>"
procedure
T<grammar.recognizerName>._<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>) ;
var
Alt: array [0..<grammar.numberOfDecisions> of Integer;
<ruleLabelDefVars()>
begin
<ruleLabelDefs()>
@if(trace)>
TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
try
 <block>
finally
 TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
end;
<else>
 <block>
<endif>
end;
// $ANTLR end "<ruleName>"
>>

synpredDecls(name) ::= <<
SynPredPointer <name>;</n>
>>

synpred(name) ::= <<

function T<grammar.recognizerName>.<name>: Boolean;
var
 Start: Integer;
 Success: Boolean;
begin
 State.Backtracking := State.Backtracking + 1;
{@start()}
 Start := Input.Mark;
 try
 <name>_fragment(); // can never throw exception
 except
 on RE: ERecognitionException do
  WriteLn('Impossible: ' + RE.ToString);
 end;
 Success := not State.Failed;
 Input.Rewind(Start);
 {@stop()}
 State.Backtracking := State.Backtracking - 1;
 State.Failed := False;
 Result := Success;
 end;</n>
>>

lexerSynpred(name) ::= <<
lexerSynpredDeclaration(name) ::= <<
  function <name>: Boolean;
  procedure <name>_fragment;
>>

synpredDeclaration(name) ::= <<
  function <name>: Boolean;
  procedure <name>_fragment;
>>

ruleMemoization(name) ::= <<
  <if(memoize)>
  if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
    Exit(<ruleReturnValue()>);
  <endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
  <if(backtracking)}
  if (State.Failed) then Exit(<ruleReturnValue()>);
  <endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
  <if(backtracking)}>if (State.Backtracking > 0) then
    begin
      State.Failed := True;
      Exit(<ruleReturnValue()>);
    end;
  <endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
  <if(ruleDescriptor.isSynPred)>
  <else>
    <ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
    <returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
    public
    <if(ruleDescriptor.hasMultipleReturnValues)>
      function <rule.ruleName>: I<returnType()>;
    <else>
      function <rule.ruleName>: <returnType>();
    <endif>
    <if(ruleDescriptor.hasSingleReturnValue)>
      function <rule.ruleName>: <returnType>();
    <else>
      procedure <rule.ruleName>;
    <endif>
  <endif>
genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType()>::;
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType()>;
<else>
procedure <rule.ruleName>;:
<endif>
<endif>
<endif>
>>

genericParserRuleReturnType(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(ruleDescriptor.isSynPred)>
<else>
I<returnType()> = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
end;
<endif>
<endif>
<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>
// $ANTLR start ">"ruleName""
(* <fileName>::<description> *)
<if(ruleDescriptor.hasMultipleReturnValue)>
function T<grammar.recognizerName>..<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): I<returnType()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function T<grammar.recognizerName>..<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>): <returnType()>
<else>
procedure
T<grammar.recognizerName>..<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal: I<returnType>();<
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType>();<
<else>
<endif>
<endif>
<endif>
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleDeclarationVars()>
<ruleLabelDefVars()>
begin
Locals.Initialize;
try
<if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
<ruleLabelDefs()>
<ruleDescriptor.actions.init>
@@preamble()
try
try
<ruleMemoization(name=ruleName)>
:block>
<ruleCleanUp()>
<@preamble()>}
<exceptions>
<exceptions:{e|<catch(decl=e.decl,action=e.action)><
><if(!emptyRule)
<if(actions.(actionScope).rulecatch)
<actions.(actionScope).rulecatch>
<else>
except
on RE: ERecognitionException do
begin
ReportError(RE);
Recover(Input,RE);
<@setErrorReturnValue()>
end;<
<endif>
<endif>
<endif>
end;
finally
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>
<ruleScopeCleanUp()>
<finally>
end;
>@postamble()
finally
Locals.Finalize;
end;
Exit(<ruleReturnValue()>);
end;
// $ANTLR end "<ruleName>"
>>
catch(decl,action) ::= <<
catch (<e.decl>)
{
  <e.action>
}
>>
ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal := T<returnType()>.Create;
RetVal.Start := Input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.name> := <if(a.initValue)<a.initValue><else><initValue(a.type)><endif>; 
}|>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex := Input.Index();
<endif>
>>
ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes:{ a | 
<a.name>: <a.type>; 
}|>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex: Integer;
<endif>
ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{<it>Stack.Push(T<it>Scope.Create);}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>Stack.Push(T<it.name>Scope.Create);}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>Stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>Stack.Pop;}; separator="\n">
>>

ruleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]:{<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{list_<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|<ll.label.text> := nil;}; separator="\n">
>>

ruleLabelDefVars() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels] :
{<it.label.text>: I<labelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.ruleListLabels] :
{List_<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDefVar(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|<ll.label.text>: <ruleLabelType(referencedRule=ll.referencedRule)>;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels]
{<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.charLabels:{int <it.label.text>;}; separator="\n">
<ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.ruleListLabels]
{List_<it.label.text> := nil;}; separator="\n">
>>

lexerRuleLabelDefDeclarations() ::= <<
<ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.ruleLabels]
{<it.label.text>: I<labelType>;}; separator="\n">
>>
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<ruleDescriptor.parameterScope>
procedure T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>); var

<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
TokenType, Channel: Integer;
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<lexerRuleLabelDefDeclarations()>
begin
Locals.Initialize;
try
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
[block]<\n>
<else>

TokenType := <ruleName>;
Channel := DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
[block>
<ruleCleanUp()>
State.TokenType := TokenType;
State.Channel := Channel;
<(ruleDescriptor.actions.after):execAction()>
<endif>
finally
<if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);
<endif>
<ruleScopeCleanUp()>
<memoize()>
end;
finally
Locals.Finalize;
end;
end;
// $ANTLR end ":<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
* that chooses between lexer rules.
*/
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
  <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
  mTokens;
end;
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 (* <fileName>:<description> *)
 Alt[<decisionNumber>] := <maxAlt>;
 <decls>
 <@predecision()> 
 <decision>
 <@postdecision()> 
 <@prebranch()> 
 case Alt[<decisionNumber>] of 
   <alts:altSwitchCase()> 
 end;
 <@postbranch()> 
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
 (* <fileName>:<description> *)
 Alt[<decisionNumber>] := <maxAlt>;
 <decls>
 <@predecision()> 
 <decision>
 <@postdecision()> 
 case Alt[<decisionNumber>] of 
   <alts:altSwitchCase()> 
 end;
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
 (* <fileName>:<description> *)
 <decls>
 <@prealt()> 
 <alts>
 <@postalt()> 
>>
/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
(* <fileName>:<description> *)
FCnt[decisionNumber] := 0;
<decls>
<@preloop()>
while (True) do begin
Alt[decisionNumber] := maxAlt;
<@predecision()>
<decision>
<@postdecision()>
case Alt[decisionNumber] of
<alts:altSwitchCase()>
else
begin
if (FCnt[decisionNumber] >= 1) then Break;
<ruleBacktrackFailure()>
raise EEarlyExitException.Create(decisionNumber, Input);
<@earlyExitException()>
end;
end;
Inc(FCnt[decisionNumber]);
end;
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts, decls, decision, enclosingBlockLevel, blockLevel, decisionNumber, maxK, maxAlt, description) ::= <<
(* <fileName>:<description> *)
<decls>
<@preloop()>
while (True) do

begin
Alt[<decisionNumber>] := <maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
  <alts:altSwitchCase()>
else
  Break;
end;
end;
<@postloop()>
>>
closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optimalBlock ::= block

optimalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
<i>:
<@prealt()>
<i><
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
(* <fileName>:<description> *)
begin
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
end;
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""
/** Dump the elements one per line */
element() ::= <<
<prematch()>
<it.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label> := <endif>Match(Input, <token>, FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)> as
I<labelType><endif>;<\n><checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)
<listLabel(elem=label,...)>}

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList\<IANTLRInterface\>.Create;
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchRange(<a>, <b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<else>
<label> := Input.LT(1) as I<labelType>;<
<endif>
<endif>
if (<<>) then
begin
Input.Consume;
<postmatchCode>
<if(!LEXER>)
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else
begin
<ruleBacktrackFailure()>
FException := EMismatchedSetException.Create(nil, Input);
<@mismatchedSetException()>
<if(LEXER)>
Recover(FException);
raise FException;<
<else>
raise FException;
<! use following code to make it recover inline; remove throw mse;
RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
<end>
end;<
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(>>
<listLabel(elem=label,...)>)
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
Locals.AsInteger['<label>Start'] := CharIndex;
Match(<string>); <checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start'], CharIndex-1);
<else>
Match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>
wildcard(label,elementIndex) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>
wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>
/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>
wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>
/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> := <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)>T<scope.recognizerName>(IANTLRObject(<scope:delegateName()>).Implementor).<endif><rule.name
>(<args; separator=", ">);<\n>
<endif>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>>
/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

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/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
<else>
<if(scope)>(<scope:delegateName()>.Implementor as T<scope.recognizerName>).<endif>m<rule.name>(<args;
separator=", ">); <checkRuleBacktrackFailure()>
<endif>
>>
/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>
/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>
/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>

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Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil);<\n><checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (not (<evalPredicate(...)>) then
begin
<ruleBacktrackFailure()>
raise EFailedPredicateException.Create(Input, '<ruleName>', '<description>');
end;<\n>
>>

// F i x e d  D F A  (if-then-else)
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
begin
<if(eotPredictsAlt)>
Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<else>
<ruleBacktrackFailure()>
raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
<endif>
end;
>>

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="nelse ";;n>
<if(eotPredictsAlt)>
<if(!edges)>
Alt[<decisionNumber>] := <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
begin
Alt[<decisionNumber>] := <eotPredictsAlt>;
end;<n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
<targetState>
end <! no ; here !>
>>

// Fixed DFA (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of <<
<edges; separator="n"n>
<if(eotPredictsAlt)>
Alt[<decisionNumber>] := <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
@@noViableAltException()>

```
public
    constructor Create(const ARecognizer: IBaseRecognizer);
end;
var
    FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
    function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
        const AInput: IIntStream): Integer;<endif>
>>
cyclicDFA(dfa) ::= <<
T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
IBaseRecognizer);
const
    DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap='">;
    DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap='">;
    DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap='">;
    DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap='">;
    DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap='">;
    DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap='">;
    DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = ( 
        <dfa.javaCompressedTransition:{s|'<s; wrap='">'}; separator=", 
    );
begin
    inherited Create;
    Recognizer := ARecognizer;
    DecisionNumber := <dfa.decisionNumber>;
    EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
    EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
    Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
    Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
    Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
    Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
    Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;

function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
    Result := '<dfa.description>
end;
<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
    const AInput: IIntStream): Integer;
var
    Locals: TLocalStorage;

Input: IIntStream;

Input: ITokenStream;

Input: ITreeNodeStream;

_S: Integer;

NVAE: ENoViableAltException;

begin
Result := -1;
Locals.Initialize;
try
  
  Input := AInput;
  
  Input := AInput as ITokenStream;
  
  Input := AInput as ITreeNodeStream;
  
  _S := S;

  case S of
  ...

  end;

  if (State.Backtracking > 0) then
  begin
    State.Failed := True;
    Exit(-1);
  end;

  NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);

  DFA.Error(NVAE);

  raise NVAE;
finally
  Locals.Finalize;
end;

/** A state in a cyclic DFA; it's a special state and part of a big switch on
*  state. **/
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
FLA[decisionNumber, stateNumber] := Input.LA(1);

if (semPredState) << get next lookahead symbol to test edges, then rewind >>
Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
Input.Rewind;

S := -1;
<edges; separator="else ">
if (semPredState) << return input cursor to state before we rewound >>
Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);
endif
if (S >= 0) then
  Exit(S);
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
*  state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
  S := <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
*  always jump to the target.
*/
eotDFAEdge(targetStateNumber, edgeNumber, predicates) ::= <<
S := <targetStateNumber>;
>>

// DFA EXPRESSIONS

andPredicates(left, right) ::= "((<left>) and (<right>))"
orPredicates(operands) ::= "(<operands:{o|(<o>)}; separator=" or ">)"
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
evalPredicate(pred, description) ::= "(<pred>)"
evalSynPredicate(pred, description) ::= "<pred>()"
lookaheadTest(atom, k, atomAsInt) ::= "FLA[decisionNumber, stateNumber] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
*  somewhere. Must ask for the lookahead directly.*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((FLA[decisionNumber],<stateNumber>] \>= <lowerAsInt>) and (FLA[decisionNumber],<stateNumber>] \<= <upperAsInt>)"

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(Input.LA(<k>) \>= <lowerAsInt>) and (Input.LA(<k>) \<= <upperAsInt>)"

setTest(ranges) ::= "<ranges; separator="\"" or "\"""

// ATTRIBUTES

globalAttributeScope(scope) ::= "<scope.name>Stack := TStackList\{"<scope.name>Scope\}.Create;"<<
<endif>

<<
globalAttributeScopeDeclaration(scope) ::= "<scope.name>Stack := TStackList\{"<scope.name>Scope\}.Create;"
<endif>

<<
ruleAttributeScopeDeclaration(scope) ::= "<scope.name>Stack := TStackList\{"<scope.name>Scope\}.Create;"
<endif>

<<
if(scope.attributes)
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
<scope.attributes:{<it.name>: <it.type>;}; separator="\n"}
end;
strict protected
<scope.name>Stack: IStackList\{"<scope.name>Scope\};
<endif>

<<
if(scope.attributes)
strict protected
type
I<scope.name>Scope = interface(IANTLRObject)
end;
T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
protected
<scope.attributes:{<it.name>: <it.type>;}; separator="\n"}
end;
strict protected
<scope.name>Stack: IStackList\{"<scope.name>Scope\};
<endif>
ruleAttributeScope(scope) ::= <<
  <! protected Stack <scope.name>Stack = new Stack();
  />
>>

ruleAttributeScopeInit(scope) ::= <<
  <if(scope)>
  <scope.name>Stack := TStackList\<I<scope.name>Scope\>.Create;
  <endif>
  >>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor:returnStructName()>
  <! I<TREE_PARSER>Tree<else>Parser<endif>RuleReturnScope !>
  <else>
  <if(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
  <else>
  ! Pointer/void !
  <endif>
  <endif>
  >>

/** Generate the C# type associated with a single or multiple return
 *  values.
 */
ruleLabelType(referencedRule) ::= <<
  <if(referencedRule.hasMultipleReturnValues)>
  I<referencedRule.name>_return
  <else>
  <if(referencedRule.hasSingleReturnValue)>
  <referencedRule.singleValueReturnScope
  <else>
  void
  <endif>
  <endif>
  >>

delegateName() ::= <<
  <if(it.label)><it.label><else>g<it.name><endif>
  >>

/** Using a type to init value map, try to init a type; if not in table
 *  must be an object, default value is "null"."
initValue(typeName) ::= "<<
<csTypeInitMap.(typeName)>
>>"

ruleLabelDef(label) ::= "<<
<label.label.text> ::= <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;\n>>"

ruleLabelDefVar(label) ::= "<<
<label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)>;
>>"

/** Define a return struct for a rule if the code needs to access its
* start/stop tokens, tree stuff, attributes, ... Leave a hole for
* subgroups to stick in members.
*/
returnScope(scope) ::= "<<
@if(ruleDescriptor.hasMultipleReturnValues)
{ T<ruleDescriptor:returnStructName()> }
<scope.attributes:{public <it.decl>;}; separator="n">;
@ruleReturnMembers()
@endif
>>"

returnScopeDeclaration(scope) ::= "<<
@if(ruleDescriptor.hasMultipleReturnValues)
public
type
T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
<scope.attributes:{public <it.decl>;}; separator="n">;
@ruleReturnMembers()
@endif
>>"

parameterScope(scope) ::= "<<
<scope.attributes:{<it.decl>}; separator="",">
>>"

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>;
"

scopeAttributeRef(scope,attr,expr) ::= "<<
@if(negIndex)"
/** X is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {function.size()>0 && function::name.equals("foo")}? */
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
    <if(referencedRule.hasMoreMultipleReturnValues)>
        IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
    <else>
        <scope>
    <endif>
<<

returnAttributeRef(ruleDescriptor,attr) ::= <<
    <if(ruleDescriptor.hasMoreMultipleReturnValues)>
        RetVal.<attr.name>
    <else>
        <attr.name>
    <endif>
<<

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
    <if(ruleDescriptor.hasMoreMultipleReturnValues)>
        RetVal.<attr.name>
    <else>
        <attr.name>
    <endif>
<<
RetVal.<attr.name> := <expr>;
<else>
<attr.name> := <expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {Ids} or e+=expr {e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
tokenLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
tokenLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope,attr) ::= "((Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(Def(<scope>).Tree as I<ASTLabelType>)"
ruleLabelPropertyRef_text(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

IfThen(Assigned(<scope>), Input.TokenStream.ToString(
   Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
   Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start)), '')
) <else>
IfThen(Assigned(<scope>), Input.ToString(
   (Def(<scope>).Start) as IToken,(Def(<scope>).Stop as IToken), '')
) <endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(RetVal.Start as I<labelType>)"  
rulePropertyRef_stop(scope,attr) ::= "(RetVal.Stop as I<labelType>)"  
rulePropertyRef_tree(scope,attr) ::= "(RetVal.Tree as I<ASTLabelType>)"  
rulePropertyRef_text(scope,attr) ::= <<
  <if(TREE_PARSER)>
    Input.TokenStream.ToString(
      Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
      Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
  <else>
    Input.ToString(RetVal.Start as IToken,Input.LT(-1))
  <endif>
>>
rulePropertyRef_st(scope,attr) ::= "RetVal.ST"

lexerRulePropertyRef_text(scope,attr) ::= "Text"  
lexerRulePropertyRef_type(scope,attr) ::= "TokenType"  
lexerRulePropertyRef_line(scope,attr) ::= "State.TokenStartLine"  
lexerRulePropertyRef_pos(scope,attr) ::= "State.TokenStartCharPositionInLine"  
lexerRulePropertyRef_index(scope,attr) ::= "-1"  // undefined token index in lexer  
lexerRulePropertyRef_channel(scope,attr) ::= "Channel"  
lexerRulePropertyRef_start(scope,attr) ::= "State.TokenStartCharIndex"  
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"  
lexerRulePropertyRef_int(scope,attr) ::= "StrToInt(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else  
// is flagged as error  
ruleSetPropertyRef_tree(scope,attr,expr) ::= "RetVal.Tree := <expr>;"  
ruleSetPropertyRef_st(scope,attr,expr) ::= "RetVal.ST := <expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
  <if(backtracking)>
    <if(actions.(actionScope).synpredgate)>
      if (actions.(actionScope).synpredgate) then
      begin
        <action>
      end;
    <else>
      if (State.Backtracking = 0) then
      begin
        <action>
      end;<
    <endif>
  <else>
/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
  <name> := TBitSet.Create([<words64:{<it>};separator="",">});<
>>

bitsetDecl(name) ::= <<
  <name>: IBitSet;<
>>

codeFileExtension() ::= ".pas"

true() ::= "True"
false() ::= "False"

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/Delphi/Delphi.stg
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*/

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/runtime/tree/PositionTrackingStream.java
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*/
@genericParserHeaderFile.memVars() ::= <<
/* AST parserHeaderFile.memVars */
NSInteger ruleLevel;
NSArray *ruleNames;
<@super.memVars()> /* AST super.memVars */
<parserMemVars()> /* AST parserMemVars */
>>
@genericParserHeaderFile.properties() ::= <<
/* AST parserHeaderFile.properties */
<@super.properties()> /* AST super.properties */
<parserProperties()> /* AST parserproperties */
>>

@genericParserHeaderFile.methodsDecl() ::= <<
/* AST parserHeaderFile.methodsDecl */
<@super.methodsDecl()> /* AST super.methodsDecl */
<parserMethodsDecl()> /* AST parsermethodsDecl */
>>

@genericParser.synthesize() ::= <<
/* AST genericParser.synthesize */
<@super.synthesize()>
<parserSynthesize()>
>>

@genericParser.methods() ::= <<
/* AST genericParser.methods */
<@super.methods()>
<parserMethods()>
>>

/* additional init code for tree support */
@genericParser.init() ::= <<
/* AST genericParser.init */
<@super.init()>
[self setTreeAdaptor:[[CommonTreeAdaptor newTreeAdaptor] retain]];
>>

@genericParser.dealloc() ::= <<
/* AST genericParser.dealloc */
[self setTreeAdaptor:nil];
<@super.dealloc()>
>>

/* Add an adaptor property that knows how to build trees */
parsersMemVars() ::= <<
/* AST parserMemVars */
id<TreeAdaptor> treeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parsersProperties() ::= <<
/* AST parserProperties */
@property (retain, getter=getTreeAdaptor, setter=setTreeAdaptor:) id<TreeAdaptor> treeAdaptor;
/** Declaration of additional tree support methods - go in interface of parserHeaderFile() */
parserMethodsDecl() ::= <<
/* AST parserMethodsDecl */
- (id<TreeAdaptor>) getTreeAdaptor;
- (void) setTreeAdaptor:(id<TreeAdaptor>)theTreeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parserSynthesize() ::= <<
/* AST parserProperties */
@synthesize treeAdaptor;
>>

/** Definition of addition tree support methods - go in implementation of genericParser() */
parserMethods() ::= <<
/* AST parserMethods */
- (id<TreeAdaptor>) getTreeAdaptor
{
    return treeAdaptor;
}
- (void) setTreeAdaptor:(id<TreeAdaptor>)aTreeAdaptor
{
    if (aTreeAdaptor != treeAdaptor) {
        treeAdaptor = aTreeAdaptor;
    }
}
>>

/** addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
/* AST returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope properties */
@returnScopeInterface.properties() ::= <<
/* AST returnScopeInterface.properties */
@property (retain, getter=getTree, setter=setTree:) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope methodsDecl */
@returnScopeInterface.methodsDecl() ::= <<
/* AST returnScopeInterface.methodsDecl */
- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;
- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;
>>
/** the implementation of returnScope synthesize */
@returnScopeImplementation.synthesize() ::= <<
/* AST returnScope.synthesize */
@synthesize tree;
>>

/** the implementation of returnScope methods */
@returnScopeImplementation.methods() ::= <<
/* AST returnScope.methods */
- (<ASTLabelType> *)getTree
{
    return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
    if (tree != aTree) {
        if (tree != nil) [tree release];
        if (aTree != nil) [aTree retain];
        tree = aTree;
    }
}

- (void) dealloc
{
    self.tree = nil;
    [super dealloc];
}
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
/* AST ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *root_0 = nil;<
>
ruleLabelDefs() ::= <<
/* AST ruleLabelDefs */
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{it | <ASTLabelType> *<it.label.text>_tree=nil;}; separator="n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> *<it.label.text>_tree = nil;}; separator="n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:{it | RewriteRuleTokenStream *stream_<it> =
    [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor

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ruleCleanUp() ::= <<
/* AST ruleCleanUp */
<super.ruleCleanUp()>
[[ruleDescriptor.allTokenRefsInAltsWithRewrites,ruleDescriptor.allRuleRefsInAltsWithRewrites]:{it |
[stream_<it> release];}; separator="\n">
>!
@if(ruleDescriptor.hasMultipleReturnValues>
@if(backtracking)>if ( state.backtracking == 0 ) {<
>@prevRuleRootRef()> setTree:(<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];<
>treeAdaptor setTokenBoundaries:[<prevRuleRootRef()> getTree]
From:[<prevRuleRootRef()> getStart]
To:[<prevRuleRootRef()> getStop];<
>@if(backtracking)>}<
>@endif>
[root_0 release];
!>
>!

rewriteCodeLabelsCleanUp() ::= <<
/* AST rewriteCodeLabelsCleanUp */
<referencedTokenLabels:{it | [stream_<it> release];}; separator="\n">
<referencedTokenListLabels:{it | [stream_<it> release];}; separator="\n">
<referencedRuleLabels:{it | [stream_<it> release];}; separator="\n">
<referencedRuleListLabels:{it | [stream_<it> release];}; separator="\n">
>!
/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
@if(autoAST)>
@if(outerAlt)>
@if(rewriteMode)>
root_0 = (<ASTLabelType> *)[[treeAdaptor class] newEmptyTree] retain];<
>@endif>
@endif>
@endif>
@endif>
>!
// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...) << Track implies no auto AST construction!>>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) <endif>
[stream_<token> addElement:<label>];<\n
/** ids+=ID and track it for use in a rewrite rule; adds to ids *and* to the tracking list stream_ID for use in the rewrite. */
tokenRefTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)> 

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)>
<if(backtracking)>
if ( !<actions.(actionScope).synpredgate> ) <endif>
[stream_<token> addElement:<label>];<\n
/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem={<label> getTree},...)>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
[stream_<rule.name> addElement:[<label> getTree]];<\n
/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem={[<label> getTree],...})>

}}
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>!
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
    [stream_<rule.name> addElement:[<label> getTree]];
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem={[<label> getTree]},...)>>
>>

// Rewrite
rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<

// AST REWRITE
// elements: <referencedElementsDeep; separator="",">
// token labels: <referencedTokenLabels; separator="",">
// rule labels: <referencedRuleLabels; separator="",">
// token list labels: <referencedTokenListLabels; separator="",">
// rule list labels: <referencedRuleListLabels; separator="",">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator="",>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
<endif>
<prevRuleRootRef().tree = root_0;<
<rewriteCodeLabels()>
root_0 = (ASTLabelType *)[[treeAdaptor class] newEmptyTree] retain;}</n>
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().tree = (ASTLabelType)[treeAdaptor rulePostProcessing:root_0];
[input replaceChildren:[treeAdaptor getParent:retval.start]
    From:[treeAdaptor getChildIndex:retval.start]
To:[treeAdaptor getChildIndex:_last]
With:retval.tree;

<endif>
<endif>
!/ if parser or tree-parser & & rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef()>.tree = root_0;<
<else>
<if(!rewriteMode)>
<prevRuleRootRef()>.tree = root_0;<
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels :{it | RewriteRule<rewriteElementType>Stream *stream_<it> =
[[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
description:@"token <it>" element:<it>] retain];}; separator="\n">
>
<referencedTokenListLabels:{it | RewriteRule<rewriteElementType>Stream *stream_<it> =
[[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
description:@"token <it>" elements:list_<it>] retain];}; separator="\n">
>
<referencedWildcardLabels:{it | RewriteRuleSubtreeStream stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:"wildcard <it>" element:<it>] retain];}; separator="\n">
>
<referencedWildcardListLabels:{it | RewriteRuleSubtreeStream stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:"wildcard <it>" elements:list_<it>] retain];}; separator="\n">
>
<referencedRuleLabels:{it | RewriteRuleSubtreeStream *stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:@"token <it>" element:<it>!=nil?[<it> getTree:nil] retain];}; separator="\n">
>
<referencedRuleListLabels:{it | RewriteRuleSubtreeStream *stream_<it> =
[[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
description:@"token <it>" elements:list_<it>] retain];}; separator="\n"
/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | [stream_<el> hasNext]}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | [stream_<el> reset];\n}> >>

rewriteClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
// <fileName>:<description>
while ( <referencedElements:{el | [stream_<el> hasNext]}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | [stream_<el> reset];\n}> >>

rewritePositiveClosureBlock(
  alt, rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::= <<
// <fileName>:<description>
{
  if ( !(<referencedElements:{el | [stream_<el> hasNext]}; separator=" || ">) ) {
    @throw [RewriteEarlyExitException newException];
  }
  while ( <referencedElements:{el | [stream_<el> hasNext]}; separator=" || "> ) {
    <alt>
  }
  <referencedElements:{el | [stream_<el> reset];\n}> }
```

```
[treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel> ];
>>

/** Gen ^(Slabel ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel> ];
>>

/** Gen ^(Slabel ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createRewriteNodeFromElement( ... )>
old:root_<treeLevel> ];
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
  [treeAdaptor addChild:<createImaginaryNode(tokenType=token, ...)> toTree:root_<treeLevel> ];
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createImaginaryNode(tokenType=token, ... )>
old:root_<treeLevel> ];
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
  root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree?  This
* let's us refer to $rule to mean previous value.  I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites.  The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
  [treeAdaptor addChild:[stream_<rule> nextTree] toTree:root_<treeLevel> ];
>>

rewriteRuleRefRoot(rule) ::= <<
  root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:(id<Tree>)[stream_<rule> nextNode]
old:root_<treeLevel> ];
>>
rewriteNodeAction(action) ::= <<
  [treeAdaptor addChild:<action> toTree:root_<treeLevel>];
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<action> old:root_<treeLevel>];
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
  [treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
  [treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
>>

/** Gen ^(ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];
>>

/** Gen ^(ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];
>>

rewriteWildcardLabelRef(label) ::= <<
  [treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
  <if(terminalOptions.node)>
    [terminalOptions.node] new<terminalOptions.node>:<tokenType> <if(args)>, <args; separator=", "><endif>
  </if>
  <else>
    <if(args)>
      [[treeAdaptor createTree:<tokenType> <if(first(args))>FromToken:<first(args)><endif>
<if(first(rest(args)))>Text:<first(rest(args))><else>Text:@"<tokenType>"<endif>] retain
    </else>
      [[treeAdaptor createTree:<tokenType> Text:@"<tokenType>"] retain]
    </if>
  </endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
  [<terminalOptions.node> new<terminalOptions.node>:[stream_<token> nextToken]<if(args)>, <args; separator="","></if>]</if>
<else>
  <if(args)>
    <! must create new node from old !>
    [[treeAdaptor createTree:<token> Text:<first(rest(args))> <args; separator="","> retain]
  <else>
    [stream_<token> nextNode]
  </if>
</else>
<endif>
</if>

Found in path(s):
* /opt/cola/permits/1173229537_1623519992.24/0/antlr-complete-3-5-2-sources-jar/org/antlr/codegen/templates/ObjC/AST.stg

1.699 managementehcacheimpl 2.10.6

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* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2-jar/org/springframework/binding/convert/converters/ObjectToCollection.java
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* /opt/cola/permits/1152477919_1618244569.93/0/spring-binding-2-0-8-release-sources-2- jar/org/springframework/binding/collection/SharedMap.java
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* /opt/cola/permits/1110784649_1606854404.68/0/commons-compiler-3-0-7-sources-1-
  jar/org/codehaus/commons/compiler/Sandbox.java

1.724 springfox-schema 3.0.0
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
  jar/springfox/documentation/schema/property/SimpleMethodSignatureEquality.java

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-
jar/springfox/documentation/schema/ModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/ModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/Maps.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/Collections.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/DefaultTypeNameProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/property/BeanProperty Definitions.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/property/field/FieldModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/configuration/ObjectMapperConfigured.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/ModelSpecificationProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/property/ModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/configuration/BeanPropertyNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/configuration/ModelsConfiguration.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources.jar/springfox/documentation/schema/property/ModelPropertiesProvider.java

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BaseModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/CachingModelPropertiesProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/Accessors.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/ModelReferenceProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/BeanModelProperty.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/AccessorsProvider.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/field/FieldProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/Annotations.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelSpecificationProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/TypeNameExtractor.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CachingModelDependencyProvider.java
* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ObjectMapperBeanPropertyNamingStrategy.java

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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java
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* /opt/ws_local/PERMITS_SQL/1082518454_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java

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  jar/org/slf4j/bridge/SLF4JBridgeHandler.java

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1.728 xmlunit 1.2

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contain code originating from the Agrona project (https://github.com/real-logic/Agrona).


The class classloading.ThreadLocalLeakTestUtils contains code originating from the Tomcat project (https://github.com/apache/tomcat).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating from minimal-json project (https://github.com/ralfstx/minimal-json).


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1.749 servlet-api 2.5.0

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------------------------------------------------------------------------------

1.756 jcip-annotation 1.0

1.756.1 Available under license :

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<html>
<body>
<p>
Class, field, and method level annotations for describing thread-safety policies.
</p>

<p>
Three class-level annotations describe the <em>intended</em> thread-safety promises of a class:
<code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>. 
<code>@Immutable</code> means that the class is immutable,
and implies <code>@ThreadSafe</code>. 
<code>@NotThreadSafe</code> is optional;
if a class is not annotated as thread-safe, it should be presumed not to be
thread-safe, but if you want to make it extra clear, use
<code>@NotThreadSafe</code>. 
</p>
These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with \texttt{@Immutable} actually is immutable.

<h2>Field and method annotations</h2>

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

The \texttt{@GuardedBy(lock)} annotation documents that a field or method should be accessed only with a specific lock held.

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Found in path(s):
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1.tar.gz/MarkupSafe-2.1.1/LICENSE.rst
No license file was found, but licenses were detected in source scan.

[metadata]
name = MarkupSafe
version = attr: markupsafe.__version__
url = https://palletsprojects.com/p/markupsafe/
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://markupsafe.palletsprojects.com/
    Changes = https://markupsafe.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/markupsafe/
    Issue Tracker = https://github.com/pallets/markupsafe/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Safely add untrusted strings to HTML/XML markup.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Web Environment
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python
    Topic :: Internet :: WWW/HTTP :: Dynamic Content
    Topic :: Text Processing :: Markup :: HTML
[options]
packages = find:
  package_dir = src
  include_package_data = True
  python_requires = >= 3.7

[options.packages.find]
  where = src

[too:pytest]
testpaths = tests
  filterwarnings = error

[coverage:run]
  branch = True
  source = markupsafe
tests

[coverage:paths]
  source = src
  */site-packages

[flake8]
  select = B, E, F, W, B9, ISC
  ignore = E203 E501 E722 W503
  max-line-length = 80

[mypy]
  files = src/markupsafe
  python_version = 3.7
  show_error_codes = True
  disallow_subclassing_any = True
  disallow_untyped_calls = True
  disallow_untyped_defs = True
  disallow_incomplete_defs = True
  no_implicit_optional = True
  local_partial_types = True
  no_implicit_reexport = True
  strict_equality = True
  warn_redundant_casts = True

---

Open Source Used In Crosswork Common EMS Services 4.0.0 8092
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/setup.cfg
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: MarkupSafe
Version: 2.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Project-URL: Changes, https://markupsafe.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
License-File: LICENSE.rst

MarkupSafe

============

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are
replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing
---------

Install and update using `pip`:

.. code-block:: text

   pip install -U MarkupSafe


Examples
--------

.. code-block:: pycon

   >>> from markupsafe import Markup, escape
   >>> # escape replaces special characters and wraps in Markup
   >>> escape("&lt;script&gt;alert(document.cookie);&lt;/script&gt;")
   Markup('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')

   >>> # wrap in Markup to mark text "safe" and prevent escaping
   >>> Markup("&lt;strong&gt;Hello&lt;/strong&gt;")
   Markup('&lt;strong&gt;hello&lt;/strong&gt;')

   >>> escape(Markup("&lt;strong&gt;Hello&lt;/strong&gt;"))
   Markup('&lt;strong&gt;hello&lt;/strong&gt;')

   >>> # Markup is a str subclass
   >>> # methods and operators escape their arguments
   >>> template = Markup("Hello &lt;em&gt;{name}&lt;/em&gt;")
   >>> template.format(name="World")
   Markup('Hello &lt;em&gt;World&lt;/em&gt;')

Donate
------

The Pallets organization develops and supports MarkupSafe and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects,
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Links
-----

- Documentation: https://markupsafe.palletsprojects.com/
- Changes: https://markupsafe.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/MarkupSafe/
- Source Code: https://github.com/pallets/markupsafe/
- Issue Tracker: https://github.com/pallets/markupsafe/issues/
- Website: https://palletsprojects.com/p/markupsafe/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/src/MarkupSafe.egg-info/PKG-INFO
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/PKG-INFO

1.758 gdbm 1.22-r0

1.758.1 Available under license:

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Version 3, 29 June 2007

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/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/package-info.java

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Found in path(s):

/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/RxtxChannelOption.java
/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java
/netty-all-4-1-49-final-sources-jar/io/netty/channel/oio/OioByteStreamChannel.java
/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/SctpChannelOption.java
/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java
/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/package-info.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/RxtxChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/UdtServerChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/rxtx/RxtxChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/SSL.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/SSLContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/internal/tcnative/Buffer.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/codec/http2/Http2FrameTypes.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/mqtt/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/IntObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/ByteObjectMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/HttpFrameSizePolicy.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/HttpFrameAdapter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/HttpHeadersDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/HttpHeadersEncoder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/Http2FlowController.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/Http2Headers.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/IntObjectMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/Http2Exception.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/DelegatingDecompressorFrameListener.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/Http2FrameListenerDecorator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/Http2ConnectionDecoder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-util/collection/IntCollections.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http2/Http2Stream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-util/collection/LongObjectHashMap.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/code/http/HttpClientUpgradeHandler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/buffer/search/SearchProcessor.java
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  jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/memcache/binary/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheClientCodec.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/memcache/AbstractMemcacheObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheRequest.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/handler/codec/memcache/MemcacheMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/example/rxtx/RxtxCryptoPasswordAuthStatus.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/example/rxtx/RxtxClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
  jar/io/netty/channel/DefaultChannelId.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestEncoder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/BinaryMemcacheResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/BinaryMemcacheOpcodes.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http/helloworld/HttpHelloWorldServerInitializer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequestDecoder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/UdtChannelOption.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/concurrent/DefaultPromise.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/FullBinaryMemcacheResponse.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/ByteBufProcessor.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/binary/AbstractBinaryMemcacheEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/memcache/MemcacheObject.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
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 * Utility class for {@link ByteBuf} that encodes and decodes to and from
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 * 
 * The encoding and decoding algorithm in this class has been derived from
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jar/io/netty/resolver/dns/TraceDnsQueryLifecycleObserverFactory.java
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jar/io/netty/util/internal/PriorityQueue.java
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jar/io/netty/bootstrap/FailedChannel.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/LongAdderCounter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-examples/uptime/UptimeServerHandler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty-handler/ssls/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
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/*
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*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/package-info.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/NioUdtChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptChannel.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/SctpMessageToMessageDecoder.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\}.

- \{[@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.

- 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

- For more information, please refer to the documentation of each subtype.

- \{[@link ChannelHandlerContext]\} object. A \{[@link ChannelHandlerContext]\} is supposed to interact with the \{[@link ChannelPipeline]\} it belongs to via a context object. Using the context object, the \{[@link ChannelHandlerContext]\} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using \{[@link AttributeKey]\}s) which is specific to the handler.

- \{[@link ChannelHandlerContext]\} often needs to store some stateful information.

  - The simplest and recommended approach is to use member variables:

    ```java
    public interface Message {
    ```

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* // your methods here
*
*
* public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
*  *
*  <b>private boolean loggedIn;</b>
*  *
*  { @code @Override }
*  public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*   *
*   if (message instanceof LoginMessage) {
*     authenticate((LoginMessage) message);
*   <b>loggedIn = true;</b>
*   } else (message instanceof GetDataMessage) {
*     if (<b>loggedIn</b>) {
*       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 a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}. 
* public class DataServerInitializer extends ChannelInitializer{Channel} { 
*  { @code @Override }
*  public void initChannel(@link Channel channel) {
*    channel.pipeline().addLast("handler", <b>new DataServerHandler();</b>);
*  }
*  }
*  }
*  </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>
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*  // your methods here
* } }
* *
* {class @Sharable}
* public class DataServerHandler extends {link SimpleChannelInboundHandler}&lt;Message&gt; { *
*     private final {link AttributeKey}&lt;{link Boolean}&gt; auth = *
*         {link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")}; *
* *
* {class @Override}
* public void channelRead({link ChannelHandlerContext} ctx, Message message) { *
*     {link Attribute}&lt;{link Boolean}&gt; 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}&lt;{link Channel}&gt; { *
*     private static final DataServerHandler &lt;h>b&gt;SHARED&lt;/h&gt; = new DataServerHandler(); *
*     {class @Override}
*     public void initChannel({link Channel} channel) {
*         channel.pipeline().addLast("handler", &lt;h&gt;SHARED&lt;/h&gt;);
*     }
* } *
* </pre>
* *
* <h4>The {code @Sharable} annotation</h4>
* *
* In the example above which used an {link AttributeKey}, *
* you might have noticed the {code @Sharable} annotation.
* *
* 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 the JCIP annotations.</p>

### Additional resources worth reading

Please refer to the `ChannelHandler` and `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.

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  jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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  jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRawRecord.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/tiles/Http2Server.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/LongCounter.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsQueryContextManager.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/unix/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/pool/Socket.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsRecordDecoder.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.
 */

[@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.

*/
* The value of the length field in this example is \(12 (0x0C)\) 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.

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

* lengthFieldOffset     = 0
* lengthFieldLength     = 2
* lengthAdjustment      = 0

** BEFORE DECODE (14 bytes) **

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

** AFTER DECODE (14 bytes) **

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

* 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.

* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

| +--------+----------------+      | +----------------+ |
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |

* 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

* lengthAdjustment \(<tt>lengthAdjustment</tt>\). Because the length value in this example message
* is always greater than the body length by \(<tt>2</tt>\), we specify \(<tt>-2</tt>\) for compensation.
*<pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>length Adjustment</b> = <b>-2</b> (= 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>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \(<tt>length Adjustment</tt>\) is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
*<pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* length Adjustment = 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>
*
* 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 \(<tt>length Adjustment</tt>\) so that the decoder counts the extra
* header into the frame length calculation.
*<pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>length Adjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)     AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
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 \texttt{lengthFieldOffset} and the extra header affects the \texttt{lengthAdjustment}. We also specified a non-zero \texttt{initialBytesToStrip} 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 \texttt{0} for \texttt{initialBytesToSkip}.

\begin{pre}
| \texttt{lengthFieldOffset}   | 1 (= the length of HDR1) |
| \texttt{lengthFieldLength}   | 2                         |
| \texttt{lengthAdjustment}    | -3 (= the length of HDR1 + LEN, negative) |
| \texttt{initialBytesToStrip} | 3                         |
\end{pre}

\begin{verbatim}
BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
| HDR1 | Length | HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD"|
\end{verbatim}

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 \texttt{lengthAdjustment}. 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.

\begin{verbatim}
BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
| HDR1 | Length | HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD"|
\end{verbatim}
@see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.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.
 */

/**
 * Set the [@code TCP_QUICKACK] option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/cola/permits/1186135310_1628056127.88/0/esper-7-1-0-sources-jar/com/espertech/esper/metrics/codahale_metrics/metrics/core/ThreadPools.java
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* /opt/cola/permits/1186135310_1628056127.88/0/esper-7-1-0-sources-jar/com/espertech/esper/metrics/codahale_metrics/metrics/reporting/JmxReporter.java
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1.763 jetty-http 8.1.7.v20120910

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* /opt/cola/permits/1003166906_1606875919.04/0/grpc-protobuf-nano-1-6-0-sources-1-jar/io/grpc/protobuf/nano/NanoProtoInputStream.java

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1.767 ezmorph 1.0.6

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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/SecurityScheme.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/Parameter.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/OAuth.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
jar/springfox/documentation/service/ApiKey.java
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jar/springfox/documentation/builders/RequestHandlerSelectors.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelReference.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/StringVendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/Cacheable.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AllowableValues.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/annotations/ApiIgnore.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AuthorizationScopeBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRule.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ImplicitGrant.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/OAuthBuilder.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/PathSelectors.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/Xml.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/VendorExtension.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/aspects/FinalPathSelector.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/AUTHORIZATION_CODE_GRANT_CLAIMS_CLAIMS.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/AlternateTypeRuleConvention.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/AlternateTypePropertyBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/DocumentationReference.java
* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ServerVariable.java

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* /opt/ws_local/PERMITS_SQL/1082519108_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/builders/ParameterMerger.java
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/////

update-ca-trust(8)

:doctype: manpage
:man source: update-ca-trust

NAME

update-ca-trust - manage consolidated and dynamic configuration of CA
certificates and associated trust

SYNOPSIS

*update-ca-trust* ['COMMAND']
DESCRIPTION

update-ca-trust(8) is used to manage a consolidated and dynamic configuration feature of Certificate Authority (CA) certificates and associated trust.

The feature is available for new applications that read the consolidated configuration files found in the /etc/pki/ca-trust/extracted directory or that load the PKCS#11 module p11-kit-trust.so.

Parts of the new feature are also provided in a way to make it useful for legacy applications.

Many legacy applications expect CA certificates and trust configuration in a fixed location, contained in files with particular path and name, or by referring to a classic PKCS#11 trust module provided by the NSS cryptographic library.

The dynamic configuration feature provides functionally compatible replacements for classic configuration files and for the classic NSS trust module named libnssckbi.

In order to enable legacy applications, that read the classic files or access the classic module, to make use of the new consolidated and dynamic configuration feature, the classic filenames have been changed to symbolic links. The symbolic links refer to dynamically created and consolidated output stored below the /etc/pki/ca-trust/extracted directory hierarchy.

The output is produced using the 'update-ca-trust' command (without parameters), or using the 'update-ca-trust extract' command.

In order to produce the output, a flexible set of source configuration is read, as described in section <<sourceconf,SOURCE CONFIGURATION>>.

In addition, the classic PKCS#11 module is replaced with a new PKCS#11 module (p11-kit-trust.so) that dynamically reads the same source configuration.

[[sourceconf]]

SOURCE CONFIGURATION

The dynamic configuration feature uses several source directories that will be scanned for any number of source files. *It is important to select the correct subdirectory for adding files, as the subdirectory defines how contained certificates will be trusted or distrusted, and which file formats are read.*

Files in *several directories below the directory hierarchy /usr/share/pki/ca-trust-source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be
interpreted with a *low priority*.

Files in *subdirectories below the directory hierarchy /etc/pki/ca-trust/source/* contain CA certificates and trust settings in the PEM file format. The trust settings found here will be interpreted with a *high priority*.

You may use the following rules of thumb to decide, whether your configuration files should be added to the /etc or rather to the /usr directory hierarchy:
* If you are manually adding a configuration file to a system, you probably want it to override any other default configuration, and you most likely should add it to the respective subdirectory in the /etc hierarchy.
* If you are creating a package that provides additional root CA certificates, that is intended for distribution to several computer systems, but you still want to allow the administrator to override your list, then your package should add your files to the respective subdirectory in the /usr hierarchy.
* If you are creating a package that is supposed to override the default system trust settings, that is intended for distribution to several computer systems, then your package should install the files to the respective subdirectory in the /etc hierarchy.

*QUICK HELP 1*: To add a certificate in the simple PEM or DER file formats to the list of CAs trusted on the system:
  * add it as a new file to directory /etc/pki/ca-trust/source/anchors/
  * run 'update-ca-trust extract'

*QUICK HELP 2*: If your certificate is in the extended BEGIN TRUSTED file format (which may contain distrust/blacklist trust flags, or trust flags for usages other than TLS) then:
  * add it as a new file to directory /etc/pki/ca-trust/source/
  * run 'update-ca-trust extract'

In order to offer simplicity and flexibility, the way certificate files are treated depends on the subdirectory they are installed to.
* simple trust anchors subdirectory: /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust-source/anchors/
* simple blacklist (distrust) subdirectory: /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust-source/blacklist/
* extended format directory: /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust-source/

In the main directories /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust-source/ you may install one or multiple files in the following file formats:
* certificate files that include trust flags,
  in the BEGIN/END TRUSTED CERTIFICATE file format
  (any file name), which have been created using the openssl x509 tool
  and the -addreject -addtrust options.
  Bundle files with multiple certificates are supported.
* files in the p11-kit file format using the .p11-kit file name extension, which can (e.g.) be used to distrust certificates
  based on serial number and issuer name, without having the full certificate available.
  (This is currently an undocumented format, to be extended later.)
For examples of the supported formats, see the files shipped with the ca-certificates package.

* certificate files without trust flags in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format (any file name). Such files will be added with neutral trust, neither trusted nor distrusted.

They will simply be known to the system, which might be helpful to assist cryptographic software in constructing chains of certificates.

(If you want a CA certificate in these file formats to be trusted, you should remove it from this directory and move it to the .anchors subdirectory instead.)

In the anchors subdirectories /usr/share/pki/ca-trust-source/anchors/ or /etc/pki/ca-trust/source/anchors/ you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as *trusted* for all purposes.

In the blacklist subdirectories /usr/share/pki/ca-trust-source/blacklist/ or /etc/pki/ca-trust/source/blacklist/ you may install one or multiple certificates in either the DER file format or in the PEM (BEGIN/END CERTIFICATE) file format.

Each certificate will be treated as *distrusted* for all purposes.

Please refer to the x509(1) manual page for the documentation of the BEGIN/END CERTIFICATE and BEGIN/END TRUSTED CERTIFICATE file formats.

Applications that rely on a static file for a list of trusted CAs may load one of the files found in the /etc/pki/ca-trust/extracted directory. After modifying any file in the /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ directories or in any of their subdirectories, or after adding a file, it is necessary to run the 'update-ca-trust extract' command, in order to update the consolidated files in /etc/pki/ca-trust/extracted/.

Applications that load the classic PKCS#11 module using filename libnssckbi.so (which has been converted into a symbolic link pointing to the new module) and any application capable of loading PKCS#11 modules and loading p11-kit-trust.so, will benefit from the dynamically merged set of certificates and trust information stored in the /usr/share/pki/ca-trust-source/ and /etc/pki/ca-trust/source/ directories.

[[extractconf]]

EXTRACTED CONFIGURATION
------------------------

The directory /etc/pki/ca-trust/extracted/ contains generated CA certificate bundle files which are created and updated, based on the <<sourceconf,SOURCE CONFIGURATION>> by running the 'update-ca-trust extract' command.

If your application isn't able to load the PKCS#11 module p11-kit-trust.so,
then you can use these files in your application to load a list of global root CA certificates.

Please never manually edit the files stored in this directory, because your changes will be lost and the files automatically overwritten, each time the 'update-ca-trust extract' command gets executed.

In order to install new trusted or distrusted certificates, please rather install them in the respective subdirectory below the /usr/share/pki/ca-trust-source/ or /etc/pki/ca-trust/source/ directories, as described in the <<sourceconf,SOURCE CONFIGURATION>> section.

The directory /etc/pki/ca-trust/extracted/java/ contains a CA certificate bundle in the java keystore file format. Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files. File cacerts contains CA certificates trusted for TLS server authentication.

The directory /etc/pki/ca-trust/extracted/openssl/ contains CA certificate bundle files in the extended BEGIN/END TRUSTED CERTIFICATE file format, as described in the x509(1) manual page. File ca-bundle.trust.crt contains the full set of all trusted or distrusted certificates, including the associated trust flags.

The directory /etc/pki/ca-trust/extracted/pem/ contains CA certificate bundle files in the simple BEGIN/END CERTIFICATE file format, as described in the x509(1) manual page. Distrust information cannot be represented in this file format, and distrusted certificates are missing from these files. File tls-ca-bundle.pem contains CA certificates trusted for TLS server authentication. File email-ca-bundle.pem contains CA certificates trusted for E-Mail protection. File objsign-ca-bundle.pem contains CA certificates trusted for code signing.

COMMANDS
--------
(absent/empty command)::
Same as the *extract* command described below. (However, the command may print fewer warnings, as this command is being run during rpm package installation, where non-fatal status output is undesired.)

*extract*::
Instruct update-ca-trust to scan the <<sourceconf,SOURCE CONFIGURATION>> and produce updated versions of the consolidated configuration files stored below the /etc/pki/ca-trust/extracted directory hierarchy.
FILES
-----
/etc/pki/tls/certs/ca-bundle.crt::
Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the simple
BEGIN/END CERTIFICATE file format, without distrust information.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/tls/certs/ca-bundle.trust.crt::
Classic filename, file contains a list of CA certificates in the extended BEGIN/END TRUSTED CERTIFICATE file
format, which includes trust (and/or distrust) flags specific to certificate usage.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/etc/pki/java/cacerts::
Classic filename, file contains a list of CA certificates trusted for TLS server authentication usage, in the Java
keystore file format, without distrust information.
This file is a symbolic link that refers to the consolidated output created by the update-ca-trust command.

/usr/share/pki/ca-trust-source::
Contains multiple, low priority source configuration files as explained in section <<sourceconf,SOURCE
CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/source::
Contains multiple, high priority source configuration files as explained in section <<sourceconf,SOURCE
CONFIGURATION>>. Please pay attention to the specific meanings of the respective subdirectories.

/etc/pki/ca-trust/extracted::
Contains consolidated and automatically generated configuration files for consumption by applications,
which are created using the 'update-ca-trust extract' command. Don't edit files in this directory, because they will be
overwritten.
See section <<extractconf,EXTRACTED CONFIGURATION>> for additional details.

AUTHOR
-----
Written by Kai Engert and Stef Walter.

Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-
archive-L3IwXukb/update-ca-trust.8.txt
No license file was found, but licenses were detected in source scan.

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# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2 of the License, or
# (at your option) any later version.
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# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

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# GNU General Public License for more details.
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software

Found in path(s):
* /opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-L3IwXukb/certdata2pem.py
No license file was found, but licenses were detected in source scan.

///
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///

text

ca-legacy(8)
============
:doctype: manpage
:man source: ca-legacy

NAME
----
ca-legacy - Manage the system configuration for legacy CA certificates

SYNOPSIS
-------
*ca-legacy* ['COMMAND']

DESCRIPTION
------------
c-legacy(8) is used to include or exclude a set of legacy Certificate Authority (CA)
certificates in the system's list of trusted CA certificates.

The list of CA certificates and trust flags included in the ca-certificates package
are based on the decisions made by Mozilla.org according to the Mozilla CA policy.
Occasionally, removal or distrust decisions made by Mozilla.org might be incompatible with the requirements or limitations of some applications that also use the CA certificates list in the Linux environment.

The ca-certificates package might keep some CA certificates included and trusted by default, as long as it is seen necessary by the maintainers, despite the fact that they have been removed by Mozilla. These certificates are called legacy CA certificates.

The general requirements to keep legacy CA certificates included and trusted might change over time, for example if functional limitations of software packages have been resolved. Future versions of the ca-certificates package might reduce the set of legacy CA certificates that are included and trusted by default.

The ca-legacy(8) command can be used to override the default behaviour.

The mechanisms to individually trust or distrust CA certificates as described in update-ca-trust(8) still apply.

COMMANDS
--------
*check*::
The current configuration will be shown.

*default*::
Configure the system to use the default configuration, as recommended by the package maintainers.

*disable*::
Configure the system to explicitly disable legacy CA certificates.
Using this configuration, the system will use the set of included and trusted CA certificates as released by Mozilla.

*install*::
The configuration file will be read and the system configuration will be set accordingly. This command is executed automatically during upgrades of the ca-certificates package.

FILES
-----
/etc/pki/ca-trust/ca-legacy.conf::
A configuration file that will be used and modified by the ca-legacy command.
The contents of the configuration file will be read on package upgrades.

AUTHOR
------
Written by Kai Engert.

Found in path(s):
License: Public Domain

Found in path(s):
*/opt/cola/permits/1348498798_1655827029.064334/0/ca-certificates-2020.2.41-70.0.el7_8.src.rpm-cosi-expand-archive-L3iwXukb/ca-certificates.spec

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

#
# This Source Code Form is subject to the terms of the Mozilla Public
# License, v. 2.0. If a copy of the MPL was not distributed with this
# file, You can obtain one at http://mozilla.org/MPL/2.0/.
#
#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT DER+base64 (varies)
# CKA_ID byte array (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER DER+base64 (varies)
# CKA_VALUE DER+base64 (varies)
# CKA_NSS_EMAIL ASCII7 (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64 (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64 (varies)
#
# Trust
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER DER+base64 (varies)
# CKA_CERT_HASH binary+base64 (varies)
# CKA_EXPIRES CK_DATE (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST (varies)
# CKA_TRUST_NON_REPUDIATION CK_TRUST (varies)
# CKA_TRUST_KEY_ENCRYPTMENT CK_TRUST (varies)
# CKA_TRUST_DATA_ENCRYPTMENT 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
CKA_CLASS CK_OBJECT_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
\0601\027\061\053\060\001\110\060\003\125\004\006\023\022\102\105
\031\060\027\060\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
\125\004\013\023\030\07\122\157\157\164\040\013\101\061\033
\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
\0601\027\061\053\060\001\110\060\003\125\004\006\023\022\102\105
\031\060\027\060\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
\125\004\013\023\030\07\122\157\157\164\040\013\101\061\033
\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
\060\202\003\165\060\202\202\202\135\240\003\002\001\002\002\013
\000\000\000\000\000\001\025\113\132\303\224\060\015\006\011\052\206
\110\020\367\150\001\000\005\005\000\006\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\145\157\156\040\156\166
\055\163\141\061\020\060\016\006\033\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\145\157\156\040\122\157\157\164\040
\103\101\060\036\027\015\057\107\060\060\017\060\061\060\062\060
\060\060\013\202\027\015\056\060\060\060\060\062\070\060\062\060
\060\013\202\027\015\056\060\031\006\033\125\004\006\023\022\102
\105\061\031\060\027\006\003\125\004\012\023\020\107\154\157\142
\141\145\157\156\040\156\166\055\163\141\061\020\060\016
\006\003\125\004\013\023\030\07\122\157\157\164\040\103\101\061
\030\060\036\013\202\003\125\004\003\023\022\107\154\157\142\141\145\157
\151\147\156\040\122\157\157\164\040\103\101\060\020\001\042\060
\015\006\011\052\206\110\020\063\070\150\001\001\001\005\000\003
\002\001\001\007\000\060\202\001\012\002\202\001\001\000\032\016\346\231
\125\316\243\343\117\121\176\373\361\121\320\045\153\352\110\037
\361\052\260\271\122\021\004\275\060\143\321\342\147\146\317\034
\335\173\033\110\053\356\215\211\216\232\257\051\200\145\253\335
\307\055\022\13\253\034\14\160\007\241\107\051\012\060\031\025\215
\117\370\035\324\214\120\025\034\037\120\356\034\056\136\374\351
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:00:01:15:4b: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

CKA_CLASS CK_OBJECT_CLASS 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\237\261\207\051\122
END
CKA_ISSUER MULTILINE_OCTAL
\060\127\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\025\113\132\303\224
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign Root CA - R2"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number: 04:00:00:00:00:01:0f:86:26:e6:0d
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After: Wed Dec 15 08:00:00 2021
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R2"
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\022\157\157\164\040\103\101\040
\055\040\122\062\061\023\060\021\106\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


```
\001\373\303\155\271\357\104\155\171\106\061\176\012\376\251\202\301\377\357\253\156\040\304\120\301\113\377\235\115\233\027\214\014\345\001\311\240\101\152\163\123\372\245\120\264\156\045\017\373\114\030\364\375\122\331\216\151\261\350\021\017\336\210\330\373\035\111\367\252\336\225\317\040\170\302\140\022\333\045\100\214\152\374\176\102\070\100\144\022\367\236\236\201\341\223\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA - R2"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Serial Number:04:00:00:00:00:01:0f:86:26:e6:0d
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R2
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021

CKA_CLASS CK_OBJECT_CLASS 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 - R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\165\340\253\266\023\205\022\047\034\004\370\137\335\336\070\344\267\044\056\376
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
```


```
\224\024\167\176\076\136\375\217\060\275\101\260\317\347\320\060
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\040\040\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\062\061\023\060\021\006\003\125\004\012\023\121\107
\154\157\142\141\154\123\151\147\156\016\023\060\021\006\003\125
\004\003\023\121\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\001\17\206\046\346\015
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
CKA_CLASS CK_OBJECT_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\141\040\040\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\062\061\023\060\021\006\003\125\004\012\023\121\107
\154\157\142\141\154\123\151\147\156\016\023\060\021\006\003\125
\004\003\023\121\107\154\157\142\141\154\123\151\147\156
```

END

CKA_SYSTEM_ID_UTF8 "0"

\\165\\164\\150\\157\\162\\151\\164\\171\\040\\055\\040\\107\\063

END

CKA_ISSUER_MULTILINE_OCTAL
\\060\\201\\312\\061\\013\\060\\011\\006\\003\\125\\004\\006\\023\\002\\125\\123
\\151\\147\\156\\054\\040\\111\\156\\143\\056\\061\\013\\060\\035\\006\\003\\125
\\004\\013\\023\\026\\126\\145\\162\\161\\151\\147\\156\\040\\124\\162\\165
\\163\\164\\164\\116\\145\\161\\157\\162\\153\\061\\072\\060\\070\\006\\003
\\125\\004\\013\\023\\061\\050\\143\\051\\120\\126\\145\\162\\151\\147\\156\\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
\\106\\104\\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\\213\\133\\165\\126\\204\\124\\205\\013\\000\\172\\257\\070\\110
\\316\\214

END

CKA_VALUE_MULTILINE_OCTAL
\\120\\165\\142\\154\\151\\143\\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_VALUE_MULTILINE_OCTAL
\\060\\200\\004\\032\\060\\022\\003\\002\\020\\021\\000\\213\\133\\165\\126\\204
\\124\\020\\101\\003\\131\\257\\070\\110\\136\\216\\111\\244\\060\\015\\006\\011\\052
\\206\\110\\206\\067\\015\\000\\100\\005\\005\\000\\060\\201\\132\\061\\013\\060
\\011\\006\\003\\125\\004\\006\\023\\002\\125\\123\\061\\027\\060\\025\\006\\003
\\125\\004\\120\\203\\161\\126\\145\\162\\151\\123\\151\\147\\156\\054\\040\\111
\\156\\143\\056\\061\\037\\060\\035\\006\\003\\125\\004\\013\\023\\062\\126\\145
\\162\\151\\123\\151\\147\\156\\040\\124\\162\\165\\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
\\165\\040\\111\\156\\143\\056\\060\\040\\055\\040\\106\\157\\162\\040\\141\\165\\164
\\150\\157\\162\\151\\172\\145\\144\\040\\165\\163\\143\\045\\040\\157\\156\\141\\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
\\150\\157\\162\\151\\172\\145\\144\\040\\165\\163\\143\\045\\040\\157\\156\\141\\171
\\146\\151\\143\\141\\164\\151\\157\\156\\040\\101\\165\\164\\040\\107\\063\\060\\036\\027\\015\\071\\071\\061\\060\\060
\\106\\060\\060\\060\\060\\060\\060\\060\\132\\027\\015\\063\\060\\060\\067\\061\\066
\\062\\063\\065\\071\\065\\071\\132\\060\\020\\131\\061\\013\\060\\011\\060\\003
\\125\\004\\060\\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
\\161\\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\\107\\107\\107\\040\\126\\145\\162\\151\\123\\151\\147\\156\\054\\040\\111
\\156\\143\\056\\040\\055\\040\\106\\157\\162\\040\\041\\146\\165\\164\\150\\157\\162
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\001\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
\114\027\155\322\254\146\077\226\214\340\204\324\066\377\042\131
\305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304
\112\270\076\211\002\003\001\000\010\060\015\006\011\052\206\110
\206\367\015\001\000\005\005\000\003\202\001\000\006\046\025
\074\300\215\115\103\111\035\275\351\041\122\327\146\234\267\336
\305\257\320\344\135\137\166\042\300\046\371\204\072\072\371\121
\265\373\354\140\361\350\316\004\260\310\335\247\003\217\060\363
\230\337\244\346\244\061\133\373\323\034\013\106\334\162\040\077\256
\356\005\072\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\116\156
\200\333\047\104\247\316\104\135\324\033\220\230\015\036\102\224
\261\000\054\004\320\164\243\002\005\042\143\143\315\203\265\373
\301\155\142\153\151\165\375\135\160\101\271\365\277\174\337\276
\301\062\163\042\041\213\130\201\173\025\221\172\272\343\144\110
\260\177\373\066\045\332\222\352\320\361\044\024\027\335\030\200\153
\106\043\071\124\365\521\142\011\004\035\224\220\246\233\346\045
\342\102\105\252\270\220\255\276\010\172\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\125\357\132\266\317\113\113\337\052
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
# 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
CKA_CLASS CK_OBJECT_CLASS 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\032\271\177\132\324\141\121\274\230\340\030\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
# Certificate "Verisign Class 3 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU=\"(c) 1999 VeriSign, Inc. - For authorized use only\",OU=VeriSign Trust Network,O=\"VeriSign, Inc.\",C=US
# Subject: CN=VeriSign Class 3 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

CKA_CLASS CK_OBJECT_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 3 Public Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\131\027\060\013\012\006\003\0125\004\006\023\002\125\123
\061\027\060\025\006\003\0125\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\005\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\033\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\062\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\141\160\313\111\214\137\230\105\051\347\260\246\331\120
\133\172

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For
# authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 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

CKA_CLASS CK_OBJECT_CLASS 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 3 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\023\055\015\105\123\113\151\127\104\141\222\011
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\315\150\266\247\307\304\316\165\340\035\117\127\104\141\122\011
CKA_ISSUER MULTILINE_OCTAL
\060\020\031\120\061\013\060\001\011\006\003\125\004\006\023\002\125\123
\061\027\060\002\25\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\103\060\035\006\003\125
\004\010\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\010\164\167\157\162\153\061\072\060\070\006\003
\125\004\010\303\026\016\050\143\051\040\040\016\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\060\055\040\106
\157\162\040\14\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\030\23
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\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\031\120\002\233\176\006\011\243\076\142\271\325\356\220\110\161
\051\357\127
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
Not Valid Before: Sun May 18 00:00:00 2008
Not Valid After : Thu May 17 23:59:59 2018
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 2/3)"

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\202\030\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\003\050\006\033\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\012\162\165
\163\164\040\116\145\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\005\040\106
\157\162\040\116\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
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\104\013\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\201\312\134\126\151\252\225\134\352\043\330\105\236\132
\133\121
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

Distrust "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 3/3)"
Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
Subject: CN=Egypt Trust Class 3 Managed PKI SCO Administrator CA,OU=Terms of use at https://www.egypttrust.com/repository/rpa (c)08,OU=VeriSign Trust Network,O=Egypt Trust,C=EG
Not Valid Before: Sun May 18 00:00:00 2008
Not Valid After : Thu May 17 23:59:59 2018
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Distrust: O=Egypt Trust, OU=VeriSign Trust Network (cert 3/3)"
CKA_ISSUER MULTILINE_OCTAL
\060\020\013\012\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\115\164\133\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\167\157\162\153\061\172\060\070\006\003
\125\004\030\23\061\050\143\051\040\111\156\143\056\040\055\040\106
\157\162\040\041\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\030\232
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\063\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\140\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\104\055\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\022\275\046\242\256\063\300\177\173\152\130\151\362
\012\166
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 "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
CKA_CLASS CK_OBJECT_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\020\126\061\024\060\022\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\143\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
# 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
CKA_CLASS CK_OBJECT_CLASS 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\021\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\060\03\125
\004\013\024\067\167\167\056\145\156\164\162\165\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\164\163\040\154\151\141\142\056\051\061\045\060\043\006
\003\125\004\013\023\034\050\143\051\040\061\071\071\071\071\040\105
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\063\060\061\006\003\125\004\003\023\052\105\156\164
\162\165\163\164\056\156\145\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_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

CKA_CLASS CK_OBJECT_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\010\060\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\010\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\010\060\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\010\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\020\003\167\060\020\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\006\013\066\013\060\011\010\060\003\125\004\006\023\011
\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\010
\171\142\145\162\124\162\165\163\164\040\122\157\157\164
\027\015\060\060\060\065\061\062\061\070\064\066\060\060\132\027
\015\060\065\060\065\060\062\062\063\065\071\060\060\132\060\132
\061\013\060\011\010\060\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
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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"

END

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\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\013\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\0271

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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"

# 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 (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4
\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\004\052\320\371\143
\350\221\014\005\040\251\137\031\121\173\162\116\324\261\133\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\122
\120\154\364\137\243\242\223\164\300\023\002\236\060\072\120\343\326
\140\030\034\366\042\104\215\161\117\254\310\032\111\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\144\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\372\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\134\031\152\264\143\317\001\133\272\234\203\334\217\140
\073\363\132\264\264\173\256\332\013\220\070\165\357\201\035\146
\322\267\127\160\066\263\277\374\050\257\161\045\205\133\023\376
\036\177\132\264\074
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After : Fri Nov 27 20:53:42 2026

END

CKA_CLASS CK_OBJECT_CLASS 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"

END

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\060\011\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\010\156\164\162\165

END
# Certificate "GeoTrust Global CA"
#
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After: Sat May 21 04:00:00 2022

// Certificate "GeoTrust Global CA"

// Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
// Serial Number: 144470 (0x23456)
// Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
// Not Valid Before: Tue May 21 04:00:00 2002
// Not Valid After: Sat May 21 04:00:00 2022

// Certificate "GeoTrust Global CA"

// Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
// Serial Number: 144470 (0x23456)
// Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
// Not Valid Before: Tue May 21 04:00:00 2002
// Not Valid After: Sat May 21 04:00:00 2022
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\265\005\225\142\271\246\336\211\075\066\173\070\167\110\227\254
\246\040\217\056\246\311\014\302\262\231\115\000\003\070\316\021\121
\042\042\340\245\352\266\025\110\011\144\352\136\117\164\367\005
\076\307\212\122\014\333\025\264\275\155\233\345\306\261\124\150
\251\343\151\220\266\232\245\017\270\271\077\040\175\256\112\265
\270\234\344\035\266\253\346\224\245\301\307\203\255\333\365\047
\207\016\004\154\325\377\335\240\135\355\207\122\267\053\025\002
\256\071\246\152\164\351\332\304\347\274\115\064\036\251\134\115
\063\137\222\011\057\210\161\135\167\227\307\035\166\023\251\132
\345\361\026\011\002\210\063\325\254\333\044\161\160\054\230\126\013
\331\027\264\321\343\121\053\136\165\350\325\320\334\117\064\355
\302\005\146\200\241\131\334\063
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GeoTrust Global CA"
# Issuer: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Serial Number: 144470 (0x23456)
# Subject: CN=GeoTrust Global CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Tue May 21 04:00:00 2002
# Not Valid After : Sat May 21 04:00:00 2022
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Global CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\050\364\244\377\345\271\057\243\130\003\321\243\111\247\371
\226\052\202\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\367\165\253\051\373\121\116\267\167\136\377\005\074\231\126\365
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\060\103\060\011\006\003\125\004\006\023\002\125\123\061
\026\060\024\000\003\125\004\012\023\015\017\145\157\124\162\165
\163\164\040\111\156\143\056\061\033\060\031\006\003\125\004\003
\023\022\107\145\157\124\162\165\163\164\040\107\154\157\142\141
\154\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\002\064\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "GeoTrust Universal CA"

# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After: Sun Mar 04 05:00:00 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
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\026\060\024\006\003\125\004\012\23\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145\162\163\141\154\040\103\101 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\026\060\024\006\003\125\004\012\23\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061\036\060\034\006\003\125\004\003\023\025\107\145\157\124\162\165\163\164\040\125\156\151\166\145\162\163\141\154\040\103\101 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL \002\001\001
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\150\060\202\003\120\240\000\003\002\001\002\002\001\001\001\150\060\202\001\002\001\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001\150\060\202\001\002\001\001"
END

# Trust for Certificate "GeoTrust Universal CA"
# Issuer: CN=GeoTrust Universal CA,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA"
# Certificate "GeoTrust Universal CA 2"

# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

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# Trust for Certificate "GeoTrust Universal CA 2"
# Issuer: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Serial Number: 1 (0x1)
# Subject: CN=GeoTrust Universal CA 2,O=GeoTrust Inc.,C=US
# Not Valid Before: Thu Mar 04 05:00:00 2004
# Not Valid After : Sun Mar 04 05:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Universal CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\067\232\031\173\101\205\105\065\014\246\003\151\363\074\056\257
\107\117\040\171
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\064\374\270\320\066\333\236\024\263\302\362\333\217\344\224\307

# 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
# Trust for 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
# CKA_CLASS CK_OBJECT_CLASS 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\167\064\216\006\102\n\121\261\201\030
END
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "Comodo AAA Services root"

CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_VALUE MULTILINE_OCTAL
\060\015\006\011\052\026\061\020\063\367\015\001\001\005\005\000\060\173\061\013\060\011\052\206\110\206\367\015\001\001\005\005\000\060\060\031\006\003\125\004\006\023\002\107\102\061\033
\060\030\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\010\060\016\000\060\033
\003\125\004\009\041\140\014\022\107\162\145\141\164\145\162\010\060\132\027\015\050\62
\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\036\027\015\062
\070\061\062\063\061\062\063\065\071\065\071\132\060\173\061\013

\220\001\012\002\001\017\000\202\001\012\002\001\017
\235\341\352\166\277\343\314\065\150\020\040\235\217\330
\336\322\303\204\234\015\136\350\057\311\002\003\001\000\001\243

Open Source Used In Crosswork Common EMS Services 4.0.0 8498
\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\137\70\040
\003\002\000\016\006\000\170\006\003\125\035\023\000\010\137\70\040
\060\003\000\001\137\70\060\173\006\003\125\035\037\004\164\060\162
\060\070\240\060\020\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\011\010\103\145\162\164\151\146\111\143\141\164\145\123\145
\162\161\151\143\141\145\130\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\011\010\103\145\162\164\151
\146\151\143\141\164\145\123\145\162\166\151\143\145\163\056\143
\162\154\060\150\061\105\206\110\206\367\015\001\001\005\005
\000\000\302\001\000\100\001\010\126\374\002\360\233\350\377\244\372
\326\173\030\061\104\200\301\161\173\004\305\366\000\130\314\246\266\274
\024\111\110\004\166\350\346\356\135\354\002\017\140\326\215\120
\030\107\046\110\001\343\346\260\024\535\277\274\164\124\101\277
\375\374\022\270\307\117\132\364\211\140\005\177\140\267\055\112
\363\366\361\032\277\304\271\164\206\266\055\175\153\314\322\363
\106\335\057\306\340\152\303\030\064\003\034\175\226\335\132\302
\016\247\012\231\010\052\123\253\014\057\363\134\072\317\154\067
\125\011\207\336\023\100\015\130\357\374\266\253\145\156\004\366
\033\334\074\340\132\025\306\236\333\361\131\110\060\004\1\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\202\023\305\432\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\124\301\173\236\277\353\150\347\126\362\256\362
\324\034\070\072\011\120\126\153\205\327\276\05\035\077\032\267
\262\143\334\265\142\054\020\324\152\000\10\120\361\071\203\237
\225\351\066\226\230\156
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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)
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028
CKA_CLASS CK_OBJECT_CLASS 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"
CaA_Cert_sha1_hash multline_octal
\321\353\043\244\155\027\326\217\331\045\144\302\361\136\140\027
\144\330\343\111
end
CaA_cert_md5_hash multline_octal
\111\171\004\260\353\207\031\254\107\260\274\021\121\233\164\320
end
CaA_issuer multline_octal
\060\173\016\013\060\000\011\000\000\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\03\12\004\007\014\007\123\141\154\146\157\162\144\061\032
\060\03\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\151\162\164\151\146\151
\143\141\164\145\040\123\145\162\166\151\143\145\163
end
CaA_serial_number multline_octal
\002\001\001
end
CaA_trust_server_author CK_trust CKT_NSS_trusted_delegator
CaA_trust_email_protection CK_trust CKT_NSS_trusted_delegator
CaA_trust_code_signing CK_trust CKT_NSS_MUST_VERIFY_TRUST
CaA_trust_step_up_approved CK_BBOOL CK_FALSE
#
# Certificate "QuoVadis Root CA"
#
# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Serial Number: 985026699 (0x3ab6508b)
# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Not Valid Before: Mon Mar 19 18:33:33 2001
# Not Valid After : Wed Mar 17 18:33:33 2021
# Fingerprint (MD5): 27:DE:36:FE:72:B7:00:03:00:9D:F4:F0:1E:6C:04:24
CaA_class CK_OBJECT_CLASS CKO_CERTIFICATE
CaA_token CK_BBOOL CK_TRUE
CaA_private CK_BBOOL CK_FALSE
CaA_modifiable CK_BBOOL CK_FALSE
CaA_label UTF8 "QuoVadis Root CA"
CaA_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
CaA_subject multline_octal
\060\177\006\013\036\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\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\103\145\162\164\151\146
Open Source Used In Crosswork Common EMS Services 4.0.0 8500
END

# Trust for Certificate "QuoVadis Root CA"
# Issuer: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Serial Number: 985026699 (0x3ab6508b)
# Subject: CN=QuoVadis Root Certification Authority,OU=Root Certification Authority,O=QuoVadis Limited,C=BM
# Not Valid Before: Mon Mar 19 18:33:33 2001
# Not Valid After : Wed Mar 17 18:33:33 2021
# Fingerprint (MD5): 27:DE:36:FE:72:B7:00:03:00:9D:F4:F0:1E:6C:04:24

CKA_CLASS CK_OBJECT_CLASS 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"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\336\077\100\275\120\223\323\233\154\140\366\332\274\007\142\001\000\211\166\311
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\047\336\066\376\162\267\000\003\000\235\364\360\036\154\004\044
END

CKA_ISSUER MULTILINE_OCTAL
\060\177\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\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\013\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157
d\141\144\151\163\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\072\266\120\213
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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 (MD5): 5E:39:7B:DD:F8:BA:EC:82:AC:C8:0C:54:00:2B
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 "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\045\060\043\006\003
\125\004\013\023\034\122\157\157\164\040\013\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\056\060\054\006\003\125\004\003\023\045\121\165\157
d\141\144\151\163\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\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_MODIFIABLE CK_BBOOL CK_FALSE
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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
\031\223\174\367
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\071\173\335\370\272\354\202\110\071
\031\223\174\367
END
CKA_ISSUER MULTILINE_OCTAL
\020\005\145\325\202\020\352\302\061\315\056
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
Open Source Used in Crosswork Common EMS Services 4.0.0 8509
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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 After: Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS 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"

END

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
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
/151/163/040/144/151/155/151/164/145/144/061/033/060/003/116/060/003
/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

END

CKA_CLASS CK_OBJECT_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"

CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

-----BEGIN CERTIFICATE-----

-----END CERTIFICATE-----
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Trust for Certificate "Sonera Class 2 Root CA"
# Issuer: CN=Sonera Class2 CA,O=Sonera,C=FI
# Serial Number: 29 (0x1d)
# Not Valid Before: Fri Apr 06 07:29:40 2001
# Not Valid After : Tue Apr 06 07:29:40 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Sonera Class 2 Root CA"

# Certificate "Camerfirma Chambers of Commerce Root"
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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
# 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

CKA_CLASS CK_OBJECT_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\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\104\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\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_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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
\065\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\104\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\161\160\072\057\057\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\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
# 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 (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A: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 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170\162\141\155\061\163\145\143\165\162\151\164\171\105\143\157\155\061\144\060\042\006\003\125\004\012\023\033\130\122\141\155\160\140\123\145\143\165\162\151\164\171\104\123\145\162\166\151\143\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023\040\130\122\141\155\160\140\124\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\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\105\143\157\155\061\144\060\042\006\003\125\004\012\023\033\130\122\141\155\160\140\123\145\143\165\162\151\164\171\104\123\145\162\166\151\143\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023\040\130\122\141\155\160\140\124\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\012\022\012\024\154\135\140\300\352\325\234\115\325\227\357\165\217\240\255
END
CKA_VALUE MULTILINE_OCTAL
\060\020\020\040\060\060\020\020\030\024\003\002\001\000\020\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\020\020\060\010\010\060\003\125\004\006\023\002\125\123\016\010\012\141\155\160\140\122\141\154\104\010\033\145\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023\040\130\122\141\155\160\140\124\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\012\022\012\024\154\135\140\300\352\325\234\115\325\227\357\165\217\240\255
END
CKA_VALUE MULTILINE_OCTAL
\060\020\020\040\060\060\020\020\030\024\003\002\001\000\020\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\020\020\060\010\010\060\003\125\004\006\023\002\125\123\016\010\012\141\155\160\140\122\141\154\104\010\033\145\145\163\040\111\156\143\061\055\060\053\006\003\125\004\003\023\040\130\122\141\155\160\140\124\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
Open Source Used In Crosswork Common EMS Services 4.0.0

8525
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc.O=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
Inc.O=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 (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A: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 "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\036
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\103\060\011\006\003\125\004\006\023\002\125\123
\061\130\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\144\060\024\026\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
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
CKA_CLASS CK_OBJECT_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\137\014\137\011\107\123\125\104\006\102\023\002\125\123\061\041\060\037\006\003\125\004\120\023\030\124\150\045\010\107\157\040\104\141\144\141\171\040\107\162\157\165\160\054\040\011\156\143\056\016\060\057\006\003\125\004\013\023\050\107\157\040\104\141\144\141\171\040\103\154\141\163\163\040\062\040\010\134\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\137\013\137\011\106\003\125\004\120\023\030\124\150\145\040\107\157\040\104\141\144\141\171\040\107\162\157\165\160\054\040\011\156\143\056\016\060\057\006\003\125\004\013\023\050\107\157\040\104\141\144\141\171\040\103\154\141\163\163\040\062\040\010\134\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
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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)
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS 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_HASH CKO_NSS_TRUST
CKA.ComponentModel.CertificateSHA1
CKA_VERIFY_CALLBACK Multiline_Octal
\047\226\272\346\077\030\001\342\167\046\033\024\052\204\147
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\013\061\013\060\001\010\060\003\125\004\006\023\002\012\25\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
# 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

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020001000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After: Thu Jun 29 17:39:16 2034

# CKA_CLASS CK_OBJECT_CLASS 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
# CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

END
# Certificate "Taiwan GRCA"

# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After : Sun Dec 05 13:23:33 2032

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Taiwan GRCA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\015\006\013\060\011\006\003\125\004\006\023\002\125\123\061
\045\060\043\006\003\125\004\012\023\034\123\164\141\162\146\151
\145\154\144\040\124\145\143\150\156\157\154\157\147\151\145\163
\054\040\111\156\143\056\061\062\060\060\060\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
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "Taiwan GRCA"
# Issuer: O=Government Root Certification Authority,C=TW
# Subject: O=Government Root Certification Authority,C=TW
# Not Valid Before: Thu Dec 05 13:23:33 2002
# Not Valid After: Sun Dec 05 13:23:33 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Taiwan GRCA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\364\213\021\277\336\253\276\224\124\040\161\346\101\336\153\276
\210\053\100\271

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\205\104\123\062\037\040\360\363\225\341\045\304\103\116

CKA_ISSUER MULTILINE_OCTAL
\060\077\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\060\060\056\006\003\125\004\012\014\047\107\157\166\145\162\156
\155\145\156\164\040\122\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\235\131\132\327\057\302\006\104\245\200\010\151\343
\136\366

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
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\014\065\001\013\000\001\125\004\006\023\002\125\123\061
\025\060\023\006\000\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\131\060\027\006\000\013\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\03\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\014\137\143\134\035\027\133\010\137\136\137\137\140\033\140\134\134\036\100
\036\027\006\000\003\125\004\006\023\002\125\123\061
\025\060\023\006\000\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\131\060\027\006\000\013\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\03\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\037\134\130\345\027\230\015\060\137\136\137\137\140\033\140\134\134\036\100
\036\027\006\000\003\125\004\006\023\002\125\123\061
\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\156\143\061\131\060\027\006\000\013\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\03\101
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\267\060\020\02\237\240\003\02\001\002\002\200\014
\137\134\035\027\133\016\376\127\134\140\134\133\360\060\071\060
\015\006\011\052\026\011\020\067\150\011\01\005\000\000\016\045
\161\013\060\011\006\003\125\004\006\023\002\125\123\061
\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\111\163\163\165\162\145\144\040\111\104\040\122\157
\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\016\060\060\061\061\016\060\060
\060\060\060\060\013\260\145\061\013\060\011\006\003\125\004\006
\023\002\012\151\123\061\025\060\023\006\003\125\004\012\023\014\010
\151\147\151\103\145\162\164\040\111\156\143\061\103\106\027\006
\003\012\004\103\023\020\016\167\167\056\144\145\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\020\001\042
# Trust for Certificate "DigiCert Assured ID Root CA"
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
060114110611013060011006000311250040006023002125123061
025060023006000311250040120230141041511471151031145
162164040111115614306103106002700600031125004013023
02011671167167056114411511471151143114511621640561143157
155061040060003600000312500400302302710411511471151
1031145116211640401071154115711421141154040122115711571164
040103101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
060114110611013060011006000311250040006023002125123061
025060023006000311250040120230141041511471151031145
162164040111115614306103106002700600031125004013023
02011671167167056114411511471151143114511621640561143157
155061040060003600000312500400302302710411511471151
1031145116211640401071154115711421141154040122115711571164
040103101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
00212012010731340126122010211062611241165115213111311221
307112
END
CKA_VALUE MULTILINE_OCTAL
06020200322570602022002227240003002001002002020010
07334012622010211062611241165115213111311221
015006011052206111020636701150110010050500000600141
06110130600110060031125004006023002125123061025060
0230060031250040120230141041511471151031145
162164040111115614306103106002700600031125004013023020167
16711670561144115114711511431145116216405611431571155061
040060036000003125004003023027104115114711511031145
16216404011071154115711421141154040122115711571164
01011060036002701150600660611061060606060600600600600
060110320715106306106106106060606060600600600
1320601141061110306001100600031250040060230021251123
06110125006023006003112500401202301410415114711511031
145116211640401111561430611031060027006000311250040130
02302016711671167056114411511471151143114511621640561143
1571155061104006003600060031250040030230271041151147
11511031145116211640401071154115711421141154040122115711571157
1640401031011106002001010420600110522061110206
367011510010010010050000032020011017000060020001012

Open Source Used In Crosswork Common EMS Services 4.0.0 8540
```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
```
# 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
CKA_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

# Certificate "DigiCert High Assurance EV Root CA"

# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE

Open Source Used In Crosswork Common EMS Services 4.0.0 8542
\017\000\060\202\001\012\002\202\001\000\001\000\030\63\34\34\5163\346
\373\324\273\345\055\055\062\246\337\345\201\077\311\315\045\111
\266\161\052\033\322\224\064\147\242\012\034\260\137\151\126\100
\261\034\262\217\320\230\044\251\101\111\017\202\333\342\224\326
\074\333\164\070\024\112\314\115\045\020\236\71\122\245\123\022\070
\356\363\311\155\161\122\117\164\326\253\137\303\244\204\370
\117\142\121\276\370\035\354\333\070\222\343\006\345\010\221\014
\304\050\101\125\373\313\132\211\251\76\161\350\065\277\115\162
\101\075\276\072\070\120\133\167\061\033\321\256\307\044\105\232
\247\254\155\000\024\132\004\267\272\023\353\12\102\230\101\101
\042\116\145\141\207\201\101\120\246\161\114\211\336\033\111\121\127
\325\056\346\135\034\123\054\176\230\315\032\006\026\244\150\163
\320\064\004\023\134\241\161\132\141\253\333\136\144\341\067
\207\060\126\004\345\021\126\051\120\002\236\171\170\121\242\002
\021\170\047\146\267\210\267\170\362\312\012\250\070\253\012\144
\130\027\146\135\225\040\301\241\045\036\362\071\135\032\120\013\040
\022\234\101\127\316\013\121\070\270\111\133\300\023\000\100\000\001
\124\31\143\060\141\060\016\060\003\125\035\017\001\100\137\004\000
\003\002\001\206\060\017\006\003\125\035\023\000\100\137\004\005
\006\000\030\100\137\006\003\056\003\012\250\035\016\004\026\004\024
\261\076\030\151\003\370\277\070\011\324\230\046\032\010\002\357
\143\114\053\030\060\037\006\003\125\035\043\000\030\060\026\200
\024\261\076\030\151\003\370\277\070\011\324\230\046\032\010\002
\357\143\144\053\300\060\150\105\026\206\110\206\036\015\001
\100\105\050\000\003\020\200\100\100\000\340\032\006\227\334\327\234
\237\074\121\010\146\060\010\127\041\333\041\110\370\052\147\252\277
\030\062\166\100\020\127\301\123\236\172\233\021\145\216\065\372
\126\374\105\026\036\033\111\140\061\113\270\221\350\103\054\216\263
\170\031\363\333\143\123\171\161\132\345\041\122\001\133\125\207\232
\044\144\366\212\146\314\336\234\067\315\250\024\261\151\123\043
\310\236\170\040\253\160\103\343\125\107\061\114\101\357\130\035
\205\057\116\060\336\240\061\102\064\033\104\374\214\150\026\063\313
\277\032\033\240\075\370\303\121\136\136\061\123\140\010\211\055\014
\006\134\122\267\304\037\101\12\230\321\025\137\237\022\276\147\006
\143\070\275\104\244\177\344\046\053\102\034\227\151\101\153\1214
\312\200\002\127\270\310\166\022\221\125\362\110\151\133\302\244\052
\002\133\101\140\324\040\061\133\364\272\160\046\135\220\140\236
\274\113\027\011\105\276\433\136\033\150\211\000\074\301\322\134
\367\235\024\171\150\022\234\074\234\277\236\374\200\134\233\143
\131\054\107\252\045\047\147\240\067\363\000\020\175\124\327\251
\137\035\106\023\243\167\350\037\112

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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
CKA_CLASS CK_OBJECT_CLASS 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"

# Certificate "DST Root CA X3"
# Issuer: CN=DST Root CA X3, O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3, O=Digital Signature Trust Co.
# Not Valid Before: Sat Sep 30 21:12:19 2000
# Not Valid After: Thu Sep 30 14:01:15 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DST Root CA X3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\077\061\044\060\042\006\003\125\004\012\023\033\104\151\147
\151\164\141\154\040\123\151\147\156\141\164\165\162\145\040\124
\162\165\163\164\040\103\157\056\061\027\060\025\006\003\125\004
\003\023\016\104\123\124\040\122\157\157\164\040\103\101\040\130
\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\077\061\044\060\042\006\003\125\004\012\023\033\104\151\147
\151\164\141\154\040\123\151\147\156\141\164\165\162\145\040\124
\162\165\163\164\040\103\157\056\061\027\060\025\006\003\125\004
\003\023\016\104\123\124\040\122\157\157\164\040\103\101\040\130
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\257\260\200\326\243\047\272\211\060\071\206\056\370
\100\153
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\112\060\020\022\062\240\003\002\001\002\002\020\104
\257\260\200\326\243\047\272\211\060\071\206\056\370\100\153\060
\015\006\011\052\206\110\020\367\150\011\001\005\005\000\060\077
\061\044\060\042\020\060\033\125\004\012\023\033\104\151\147\151\164
\141\154\040\123\151\147\156\141\164\165\162\145\040\124\162\165
\163\164\040\103\157\056\061\027\060\025\006\003\125\004\003\023
\161\104\123\124\040\122\157\157\164\040\103\101\040\130\063\060
\036\027\015\060\060\060\071\063\060\060\026\061\061\062\061\071\132
\027\015\060\060\060\071\063\060\060\060\060\060\132\060
\077\061\044\060\042\020\060\033\125\004\012\023\033\104\151\147\151
\164\141\154\040\123\151\147\156\141\164\165\162\145\040\124\162\165
\165\163\164\040\103\157\056\061\027\060\025\006\003\125\004\003
\023\016\104\123\124\040\122\157\157\164\040\103\101\040\130\063
\160\020\001\042\060\015\006\060\110\052\206\110\026\367\105\001\001
\001\005\000\003\023\020\001\017\000\006\020\020\012\020\022\020\001
\000\033\257\351\122\120\010\023\127\264\314\142\145\366\220\020
\354\307\323\054\153\060\312\133\354\333\130\317\50\100\03\030
\024\213\340\350\063\166\111\052\343\077\041\111\223\254\116\016
\257\076\110\133\145\356\374\323\041\017\145\352\052\331\062\0217
\214\345\367\167\260\022\173\265\225\300\211\243\251\127\235\55\163
\056\172\014\040\062\203\242\176\212\024\060\315\021\240\341\052
\070\021\171\012\061\375\120\275\200\145\337\267\121\143\203\310
\342\210\141\352\113\141\201\354\122\153\271\242\342\113\032\050
\237\110\243\236\014\332\011\216\076\027\056\036\335\040\337\133
# Trust for Certificate "DST Root CA X3"
# Issuer: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Subject: CN=DST Root CA X3,O=Digital Signature Trust Co.
# Not Valid Before: Sat Sep 30 21:12:19 2000
# Not Valid After : Thu Sep 30 14:01:15 2021

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Reading Natural
\332\311\002\117\124\330\366\337\224\223\137\261\163\046\070\312 \\152\327\174\023 
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\101\003\122\334\017\367\120\033\026\360\002\216\272\157\105\305 
END

CKA_ISSUER MULTILINE_OCTAL
\060\077\061\044\060\042\006\003\125\004\012\023\033\104\151\147 \\
151\164\141\154\040\123\151\147\157\161\141\164\165\162\145\040\124 \\
162\165\163\164\040\103\157\056\061\1027\060\025\125\100 \n003\023\016\123\124\040\122\157\157\164\040\103\101\040\130 \\
103 
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\104\257\260\200\326\243\047\272\211\060\071\206\056\370 \\
100\153 
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
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
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\123\023\014\123\167\151\163\163\123 \\
151\147\156\040\101\107\061\043\060\041\006\003\125\004\003\023 \\
03\21\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151 \\
156\165\155\040\103\101\040\055\040\107\062 
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061

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# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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\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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\311\230\047\167\050\036\075\016\025\074\204\000\270\205\003\346

END

# Certificate "SwissSign Gold CA - G2"
END

# Trust for 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 After : Sat Oct 25 08:30:35 2036

\121\122\307\120\061\156\341\112\176\030\057\151\131\266\075\144
\201\053\343\203\024\360\042\207\216\175\350\036\002\231\141\270
\036\346\270\053\210\022\026\204\302\061\223\070\226\061\246\271
\073\123\077\304\044\223\126\133\151\222\354\035\301\273\070\000
\343\354\027\251\270\033\043\071\174\001\203\237\062\107\272\122\042
\064\035\062\172\011\126\247\174\045\066\251\075\113\332\300\022
\157\012\273\022\310\207\113\047\021\173\106\036\055\307\223\077\236
\333\137\046\153\122\331\056\212\361\024\306\104\215\025\251\267
\277\275\333\246\032\356\256\055\373\110\167\027\237\023\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\333\171\363\222\071\137\105\175\102\113
\333\263\054\036\053\061\135\312\250\072\224\023\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\011\143\034\125
\250\024\335\076\340\121\120\317\361\033\060\126\016\222\260\202
\120\053\320\203\133\042\144\274\055\270\045\325\124\242\270\006\352
\252\222\244\044\240\301\206\265\112\203\152\107\317\056\013\126
\225\124\313\166\232\333\151\252\246\262\233\310\101\020\064\071
\367\152\240\102\154\013\070\316\327\165\120\062\222\302\337\053
\060\042\110\320\032\25\101\070\045\135\244\335\131\237\066\224\165
\320\101\375\057\022\031\217\220\253\012\307\026\163\140\112\151
\055\336\245\170\032\006\332\152\236\113\076\167\072\040\023\042
\001\234\027\150\236\143\140\153\065\115\013\155\272\241\075\300
\223\330\177\043\263\125\255\162\045\161\063\371\322\026\357\260
\144\010\001\236\351\132\240\152\230\016\317\330\140\362\057\111
\270\034\102\234\017\070\065\026\364\313\156\173\67\201\126\350\272
\243\276\043\257\256\375\157\003\340\000\020\73\060\166\372\033\155
\101\317\001\261\351\270\031\114\364\333\046\363\072\244\163\362
\111\044\133\311\260\320\127\301\372\076\172\341\227\311

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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\103\060\061\110\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\110\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\40
\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 After : Sat Oct 25 08:32:46 2036
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\103\060\111\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\110\061\037\060\035\006\003\125\004\003\023
\026\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\103\060\111\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
```
# Trust for 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 After: Sat Oct 25 08:32:46 2036

CKA_CLASS CK_OBJECT_CLASS 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\137\311\137\401\153\000\126\165\226\330\142\023

END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\100\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\011\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
\000\201\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 "GeoTrust Primary Certification Authority"

#
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After: Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"
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\125\123\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163\164\040\111\156\143\056\060\057\006\003\125\004\003\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\101\165\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141\162\171\040\101\165\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372
\304\241
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\174\060\202\002\144\240\003\002\001\100\002\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372\024\010\015\006\011\052\206\110\206\367\015\001\100\005\000\000\060\130\061\130\060\111\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\145\157\124\162\165\163\164\040\120\162\151\155\141\162\171\010\145\157\124\162\165\151\146\151\143\141\164\151\157\156\040\101\165\150\157\162\151\164\171
END
Open Source Used In Crosswork Common EMS Services 4.0.0  8561

# Trust for Certificate "GeoTrust Primary Certification Authority"
# Issuer: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority,O=GeoTrust Inc.,C=US
# Not Valid Before: Mon Nov 27 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\062\074\021\216\033\367\270\266\122\124\342\342\020\015\326\002\220\067\360\226
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\002\046\303\001\136\010\060\067\103\251\120\162\151\157\156\040\111\156\143\141\146\151\157\156
\040\101\165\164\150\157\162\151\164\171
END

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\001\006\003\125\004\006\023\002\125\123\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165
\163\164\040\111\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\145\157\124\162\165\163\164\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
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\254\265\152\375\151\266\025\072\143\154\257\332\372\304\241
END

# Certificate "thawte Primary Root CA"
# Issuer: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA,OU="(c) 2006 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After : Wed Nov 17 00:00:00 2006
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\004\040\060\202\003\010\240\003\002\001\002\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333\053\155
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\004\040\060\202\003\010\240\003\002\001\002\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333\053\155
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333\053\155
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\040\060\202\003\010\240\003\002\001\002\002\020\064\116\325\127\040\325\355\354\111\364\057\316\067\333\053\155
END
Open Source Used In Crosswork Common EMS Services 4.0.0 8564

END

CKA_NSS_MOZZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA"
# Issuer: CN=thawte Primary Root CA,OU=\"(c) 2006 thawte, Inc. - For authorized use only\",OU=Certification Services Division,O=\"thawte, Inc.\",C=US
# Subject: CN=thawte Primary Root CA,OU=\"(c) 2006 thawte, Inc. - For authorized use only\",OU=Certification Services Division,O=\"thawte, Inc.\",C=US
# Not Valid Before: Fri Nov 17 00:00:00 2006
# Not Valid After: Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_CERTIFICATE_MULTILINE_OCTAL
# Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Nov 08 00:00:00 2006
# Not Valid After : Wed Jul 16 23:59:59 2036


cka_serial_number multiline_octal
00202000641163251270403253553541111364057316067333
0531155

end

cka_trust_server_auth ck_trust ckt_nss_trusted_delegator
cka_trust_email_protection ck_trust ckt_nss_must_verify_trust
cka_trust_code_signing ck_trust ckt_nss_must_verify_trust
cka_trust_step_up_approved ck_bbool ck_false

cka_class ck_object_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 3 Public Primary Certification Authority - G5"
cka_certificate_type ck_certificate_type ckc_x_509
cka_subject multiline_octal

end

cika_id utf8 "0"
cika_issuer multiline_octal

end
# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G5"
# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G5,OU="(c) 2006 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Nov 08 00:00:00 2006
# Not Valid After: Wed Jul 16 23:59:59 2036
CKA_CLASS CK_OBJECT_CLASS 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 3 Public Primary Certification Authority - G5"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\116\266\325\170\111\233\034\317\137\036\255\126\276\075\233
\147\104\245\345
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\313\027\344\061\147\076\342\060\111\376\105\127\223\363\012\372\034
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\131\126\011\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\027\060\025\060\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\103\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\062\060\066\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\060\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
\063\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\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\030\332\321\236\064\175\350\273\112\041\130\315\314\153
\073\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
# 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

CKA_CLASS CK_OBJECT_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\001\010\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\111
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\001\110\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\111
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\020\003\270\060\020\002\240\024\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\020\367\015\001\100\005\000\060\110
\061\013\060\001\110\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\110\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\060\065\065\132\060\110\061\013\060\011\060\003

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Open Source Used In Crosswork Common EMS Services 4.0.0 8569
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:00:08:16:a5:ad:42:7f:00: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
CKA_CLASS CK_OBJECT_CLASS 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\155\331\064\377\021
END

# Certificate "Secure Global CA"

# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# 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

CKA_CLASS CK_OBJECT_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\000\006\002\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\112\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\031\060\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\200\07 \126\042\244\154\035\032\242\121\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\032\242\121\211\115\364\023\310\360\370\352\245\060
\015\006\011\052\206\110\206\367\150\011\001\005\000\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\010\175\154\172\141\154\040\103\101\060\036\023\002\125\123\061\104\060
\016\010\060\067\107\010\064\026\026\070\132\027\155\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\104\060\036\000\063\125
\004\020\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
\124\141\154\040\103\101\060\202\000\010\042\060\015\060\011\052\206
\110\206\367\150\000\101\001\000\000\000\000\320\001\017\000\000\060\202
\001\012\002\200\001\000\027\065\056\330\254\154\125\151\006
<table>
<thead>
<tr>
<th>Character</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0161</td>
<td>345</td>
<td>Open Source Used In Crosswork Common EMS Services 4.0.0</td>
</tr>
<tr>
<td>0173</td>
<td>327</td>
<td>CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>0174</td>
<td>326</td>
<td>CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>0175</td>
<td>325</td>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>0176</td>
<td>324</td>
<td>END</td>
</tr>
</tbody>
</table>

Open Source Used In Crosswork Common EMS Services 4.0.0 8573
# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA, O=SecureTrust Corporation, C=US
# 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
CKA_CLASS CK_OBJECT_CLASS 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"

# 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:ce5:3d
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\033\060\031\006\003\125\004\010\023\022\010\061\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\026\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\151\143\146\156\140\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\033\060\031\006\003\125\004\010\023\022\010\061\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\026\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\151\143\146\156\140\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\000\135\076\065\002\010
\135\075
END
CKA_VALUE MULTILINE_OCTAL
\060\033\060\031\006\003\125\004\010\023\022\010\061\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\026\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\151\143\146\156\140\101\165\164\150\157
\162\151\164\171
END

Open Source Used In Crosswork Common EMS Services 4.0.0 8575
# Trust for 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:35:02:46:53:d 
# 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
CKA_CLASS CK_OBJECT_CLASS 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\020\120\061\130\060\011\006\003\125\004\006\023\002\107\102\061\033\060\031\060\003\125\004\010\023\022\107\162\145\143\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\115\115\115\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
# 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
CKA_CLASS CK_OBJECT_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\103\060\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\060\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\161\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\103\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\060\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\161\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\034
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\134\060\020\002\316\240\003\002\001\002\002\020\127
\313\063\157\302\134\026\346\107\026\027\343\220\061\150\034\060
\015\006\011\052\206\110\026\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
# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# 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

CKA_CLASS CK_OBJECT_CLASS 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\040\345\337\316

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\030\037\153\035\131\261\055\226\115\016\021\056

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\135\060\011\106\003\125\004\106\023\110\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\156\164\151\157\156\163\040\114\056\114\056
\103\056\061\160\060\056\060\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\153\036\157\032\134\026\346\107\106\227\343\220\061
\150\340
Certificate "COMODO ECC Certification Authority"

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


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


CLASS:

OBJECT_CLASS CKO_CERTIFICATE

CERTIFICATE_TYPE CKC_X_509

SUBJECT:

O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

Serial Number:

Not Valid Before: Thu Mar 06 00:00:00 2008

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


END

CLASS:

BBOOL CK_TRUE

PRIVATE:

BBOOL CK_FALSE

MODIFIABLE:

BBOOL CK_FALSE

CERTIFICATE_TYPE:

UTF8 "COMODO ECC Certification Authority"

SUBJECT:

O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB

Serial Number:

Not Valid Before: Thu Mar 06 00:00:00 2008

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


END

CLASS:

MULTILINE_OCTAL

CLASS:

UTF8 "0"

ISSUER:

MULTILINE_OCTAL

Serial Number:

Not Valid Before: Thu Mar 06 00:00:00 2008

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


END

CLASS:

MULTILINE_OCTAL

Serial Number:

Not Valid Before: Thu Mar 06 00:00:00 2008

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


END

CLASS:

MULTILINE_OCTAL

Serial Number:

Not Valid Before: Thu Mar 06 00:00:00 2008

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


END
\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\111\060\202\002\017\240\003\002\001\002\002\020\037
\107\257\252\142\000\160\120\124\114\001\1236\233\143\231\052\060
\012\006\010\052\206\110\316\075\004\003\003\006\020\120\056\011\013
\060\011\006\063\125\004\006\023\002\107\102\061\013\033\060\031\006
\003\125\004\010\232\022\107\162\145\111\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\165\157\162\144\061\032\060\030\006\003
\125\004\120\232\021\013\117\115\104\117\040\010\010\040\114
\151\155\151\164\145\144\061\053\060\051\006\003\125\004\000\032
\042\103\117\115\117\104\117\040\010\031\004\030\145\162\164
\151\146\151\143\141\164\151\157\156\040\010\116\151\150\157\162
\151\164\171\060\036\027\015\060\070\060\063\060\066\060\060\060
\060\060\060\060\132\027\015\063\070\060\061\070\062\063\065\071
\065\057\113\062\020\120\056\011\013\060\031\125\004\000\023
\002\107\102\060\103\036\003\106\003\125\004\010\023\022\107\162
\145\141\164\145\146\040\115\141\153\150\145\163\164\145\162
\061\102\060\060\060\003\125\004\007\023\007\123\141\151\146\157
\162\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115
\117\104\117\040\010\104\114\141\151\155\151\164\145\144\061\053
\060\051\006\060\032\125\004\003\020\042\103\117\115\117\104\117\040
\105\103\103\040\010\145\162\164\151\146\141\143\141\164\151\157
\156\040\101\116\164\150\157\162\152\151\164\171\060\016\060\020\006
\007\052\206\110\316\075\002\001\006\005\053\201\010\004\000\042\003
\142\000\040\010\071\173\057\165\111\202\025\205\373\165\344\221
\026\324\253\142\232\136\076\122\013\006\163\160\101\000\177\227\341
\012\044\074\035\001\004\035\075\322\215\011\227\014\340\165\344
\372\373\167\121\025\365\003\140\113\066\213\026\064\032\026\055\011
\161\364\112\364\050\120\264\376\210\034\151\077\154\057\057\011
\131\113\245\133\013\063\232\342\303\075\211\371\152\054\357\262
\323\006\351\243\012\060\100\060\035\060\013\125\035\016\040\026
\004\024\165\161\124\031\110\031\127\432\352\352\101\107\337\224
\304\110\167\231\323\171\060\016\006\003\125\035\017\001\001\037
\004\004\003\002\001\006\060\017\006\003\125\035\023\001\001\037
\004\005\060\003\001\001\037\060\012\006\010\052\206\110\036\075
\004\003\003\003\015\000\006\014\055\002\061\000\035\070\031\133\172\254
\267\170\101\121\162\267\210\337\377\277\265\106\024\010\112\372\240\346
\175\010\306\030\232\072\275\030\250\163\275\046\312\140\014\235\316
\231\1237\317\134\017\060\034\127\024\046\135\200\020\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_DISTURST_AFTER CK_BBOOL CK_FALSE
# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# 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

CKA_CLASS CK_OBJECT_CLASS 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"
# Fingerprint (MD5): 
# Fingerprint (SHA1): 

END

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\010\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\104\141\151\155\151\164\145\144\010\053\060\051\006\003\125\004\003\023\024\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\017\025\252\142\000\160\120\124\114\001\236\233\143\231\052
END

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

# Certificate "OISTE WISEKey Global Root GA CA"
# Issuer: CN=OISTE WISEKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037
CKA_CLASS CK_OBJECT_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\013\060\001\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\030\117\111\123\124\105\040
\106\157\165\150\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\013\060\001\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\030\117\111\123\124\105\040
\106\157\165\150\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\020\003\361\060\020\002\331\240\003\002\001\002\002\020\101
\075\162\307\364\153\037\201\103\175\361\322\050\124\133\7232
END
END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "OISTE WISeKey Global Root GA CA"
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037
CKA_CLASS CK_OBJECT_CLASS 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"

END

CKA_CERT MD5_HASH MULTILINE OCTAL

END

CKA_CERT ISSUER MULTILINE OCTAL

END
# 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
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Certigna"
# CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509
# CKA_SUBJECT_MULTILINE_OCTAL
# CKA_ISSUER_MULTILINE_OCTAL
# CKA_SERIAL_NUMBER_MULTILINE_OCTAL
# CKA_VALUE_MULTILINE_OCTAL
# Trust for 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

# Certificate "Cybertrust Global Root"
# Issuer: CN=Cybertrust Global Root,O="Cybertrust, Inc"
\220\022\022\317\024\006\364\073\343\324\050\276\350\016\370\253\116
\110\224\155\216\225\061\102\013\143\355\242\055\275\325\072\155\262
\034\273\140\300\106\113\001\136\511\112\256\176\106\021\232\020\164\215
\241\014\002\161\365\613\374\347\217\251\153\146\363\177\104\000\277
\146\045\024\059\333\502\020\060\035\007\226\077\115\366\153\270\217
\267\173\014\245\070\353\336\107\333\332\251\153\071\137\412\024\736\363
\327\052\164\361\350\132\242\073\237\120\027\246\024\14\105\065\302
\120\145\225\334\143\202\337\335\332\277\167\115\234\142\311\143\163
\026\320\051\107\111\251\110\360\026\325\226\71\154\305\247\060\071
\100\135\256\304\342\135\046\123\360\316\034\043\010\141\250\224
\031\127\004\142\100\034\037\070\160\167\220\072\061\161\247\060\030
\135\045\047\245\002\003\000\001\243\021\245\060\020\142\060
\016\006\003\012\50\351\017\000\013\770\004\000\003\002\001\100\060\060
\017\006\003\012\50\351\023\000\011\377\004\005\006\003\000\011\377
\060\035\006\003\125\035\016\004\026\004\024\266\010\173\015\172
\314\254\040\114\206\126\062\136\317\253\156\205\055\160\127\060
\077\006\003\012\50\351\037\004\070\060\066\060\064\240\240\060
\206\056\150\164\164\160\072\050\071\167\167\62\056\160\165
\142\154\151\143\055\164\162\165\163\164\056\143\157\155\057\143
\162\154\057\143\164\057\143\164\162\157\157\164\056\143\162\154
\060\037\006\003\125\035\034\030\040\030\060\026\200\024\266\010\173
\015\172\314\254\040\114\206\126\062\136\317\253\156\205\055\160
\127\060\015\006\011\052\206\110\206\367\015\001\000\105\005\000
\003\020\001\001\000\126\357\012\043\240\124\116\225\227\311\370
\211\332\105\031\324\243\000\045\364\037\023\253\267\243\205\130
\151\032\060\255\330\025\212\055\343\311\135\201\132\370\163\043
\132\247\174\005\363\375\042\070\163\321\006\304\333\066\114\163
\004\216\134\026\060\042\344\305\363\056\245\331\043\343\270\116\112
\040\247\156\002\044\423\70\042\140\147\173\211\035\162\011\130\061
\134\351\117\123\200\017\075\255\241\013\007\024\075\107\377\003
\151\032\014\013\010\434\71\143\045\247\177\262\311\127\016\204\355
\043\366\175\007\253\105\176\323\337\263\277\351\121\266\315\250
\242\147\053\122\325\267\145\360\071\114\143\240\221\171\223\122
\017\124\335\203\277\237\322\127\247\123\163\303\133\377\060\354
\174\004\270\330\104\037\223\137\161\011\042\267\156\076\352\034
\003\116\235\302\040\141\373\021\067\354\136\374\012\105\253\327
\347\027\125\320\040\352\140\233\246\366\343\214\133\051\130\006
\140\242\235\055\227\114\251\122\025\235\141\304\001\137\110\326
\130\275\126\061\022\116\021\310\041\340\263\021\221\145\333\264
\246\210\070\316\125

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Cybertrust Global Root"
# Issuer: CN=Cybertrust Global Root, O="Cybertrust, Inc"
# Serial Number: 04:00:00:00:00:01:0f:85:aa:2d:48
# Subject: CN=Cybertrust Global Root,O="Cybertrust, Inc"
# Not Valid Before: Fri Dec 15 08:00:00 2006
# Not Valid After : Wed Dec 15 08:00:00 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Cybertrust Global Root"

CKA_CLASS CK_OBJECT_CLASS 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"

# 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

END

CKA_CLASS CK_OBJECT_CLASS 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"
### Trust for 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 (MD5):** 1B:2E:00:CA:26:06:90:3D:AD:FE:6F:15:68:D3:6B: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 "ePKI Root Certification Authority"

#### CKA_CERT_SHA1_HASH MULTILINE_OCTAL

#### CKA_CERT_MD5_HASH MULTILINE_OCTAL

#### CKA_ISSUER MULTILINE_OCTAL

#### CKA_CERT_SHA1_HASH MULTILINE_OCTAL

#### CKA_CERT_MD5_HASH MULTILINE_OCTAL

#### CKA_ISSUER_MULTILINE_OCTAL
# 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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\040\006\005\026\160\002

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

#
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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
\030\230\300\326\351\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\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_CERT_MD5_HASH MULTILINE_OCTAL
\030\230\300\326\351\122\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\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 "GeoTrust Primary Certification Authority - G3"
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008

__Open Source Used In Crosswork Common EMS Services 4.0.0 8598__
# Not Valid After: Tue Dec 01 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\000\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\15\107\145\157\124\162
\165\163\164\040\11\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\11\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\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\17\104\0103
\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\230\061\013\060\000\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\15\107\145\157\124\162
\165\163\164\040\11\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\050\143\051\040\062\060\060\070\040\107\145\157\124
\162\165\163\164\040\11\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\066\060\064\006\003\125\004\003\023\055\107\145
\157\124\162\165\163\164\040\120\162\151\155\141\162\17\104\0103
\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\025\254\156\224\031\262\171\113\101\136\047\251\130\030
\017\037
END
CKA_VALUE MULTILINE_OCTAL
\060\202\020\003\376\060\202\002\346\240\003\002\001\002\002\202\020
\254\156\224\031\262\171\113\101\136\047\251\130\030
\015\006\011\052\020\010\020\367\015\001\001\013\005\000\060\0201
\230\006\013\060\011\006\003\125\004\006\023\002\125\123\061\026
\060\024\006\003\125\004\012\023\015\107\145\157\124\162\165\163
\164\040\111\156\143\056\061\071\060\067\006\003\125\004\013\023
\060\050\143\051\040\060\060\070\040\107\145\157\124\162\165
\163\164\040\11\156\143\056\040\055\040\106\157\162\040
\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
# Trust for Certificate "GeoTrust Primary Certification Authority - G3"
# Issuer: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Subject: CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G3"

END
# Certificate "thawte Primary Root CA - G2"
#
# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc." ,C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc." ,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\002\020\256\156\224\031\262\171\113\101\366\047\251\303\030
\017\037

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\002\020\256\156\224\031\262\171\113\101\366\047\251\303\030
\017\037
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA - G2"
# Issuer: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc." ,C=US
# Subject: CN=thawte Primary Root CA - G2,OU="(c) 2007 thawte, Inc. - For authorized use only",O="thawte, Inc." ,C=US
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\252\333\274\042\043\217\304\001\241\047\273\070\335\364\035\333
\010\236\360\022
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\235\352\140\044\304\375\042\123\076\314\072\162\331\051\117
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\040\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\025\060\023\066\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\107\060\006\006\003\125\004\013
\023\057\050\143\051\040\062\060\060\067\040\164\150\141\167\164
\145\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\040\060\042\060\003\125\004\003\023\033\164\150\141\167
\164\145\040\120\162\151\155\141\162\171\040\122\157\157\164\040
\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\065\374\046\134\331\204\117\311\075\046\075\127\233\256
\327\126
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "thawte Primary Root CA - G3"
# Issuer: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\021\256\061\013\060\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\010\141\156\151\163\151\157
\156\061\107\006\066\066\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\166\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\010\101\040\055\040\107
\063
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\021\256\061\013\060\006\003\125\004\006\023\002\125\123
\061\025\060\023\006\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\010\141\156\151\163\151\157
\156\061\107\006\066\066\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\054\040\111\156\143
\056\040\055\040\166\157\162\040\141\165\164\150\157\162\151\172
\145\144\040\165\163\145\040\157\156\154\171\061\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\010\101\040\055\040\107
\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\140\001\227\267\106\247\352\264\264\264\232\326\113\057\367
\220\373
【Open Source Used In Crosswork Common EMS Services 4.0.0】

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "thawte Primary Root CA - G3"
# Issuer: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Subject: CN=thawte Primary Root CA - G3,OU="(c) 2008 thawte, Inc. - For authorized use only",OU=Certification Services Division,O="thawte, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "thawte Primary Root CA - G3"

END
# Certificate "GeoTrust Primary Certification Authority - G2"

# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.,O=GeoTrust Inc.,C=US

# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b

# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.,O=GeoTrust Inc.,C=US

# Not Valid Before: Mon Nov 05 00:00:00 2007

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


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"

CKA_SUBJECT_MULTILINE_OCTAL
\060\025\060\023\060\003\125\004\012\023\014\164\150\141\167\164
\145\054\040\111\156\143\056\061\010\050\060\046\006\003\125\004\013
\023\037\103\145\162\164\151\146\151\143\141\164\151\157\156\040
\123\145\162\166\151\143\145\163\040\104\151\166\151\163\151\157
\156\061\070\060\066\006\003\125\004\013\023\057\050\143\051\040
\062\060\060\070\040\164\150\141\167\164\145\154\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\044\060\042\006
\003\125\004\003\023\033\164\150\141\167\164\145\040\120\162\151
\155\141\162\171\040\122\157\157\164\040\103\101\040\055\040\107
\063

END

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
```
# Trust for Certificate "GeoTrust Primary Certification Authority - G2"
# Issuer: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.
# Serial Number:3c:b2:f4:48:0a:00:e2:fe:eb:24:3b:5e:60:3e:c3:6b
# Subject: CN=GeoTrust Primary Certification Authority - G2,OU=(c) 2007 GeoTrust Inc. - For authorized use only.
# Not Valid Before: Mon Nov 05 00:00:00 2007
# Not Valid After : Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GeoTrust Primary Certification Authority - G2"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\215\027\204\325\067\363\003\175\354\160\376\127\213\121\232\231
\346\020\327\260
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\001\136\330\153\275\157\075\216\241\061\137\022\340\230\163\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\013\060\001\006\003\125\004\006\023\002\125\123
```
\061\026\060\024\006\003\125\004\012\023\015\107\145\157\124\162 \
165\163\164\040\011\156\143\056\061\071\060\067\006\003\125\004 \
013\023\060\050\143\051\040\040\062\060\060\067\040\010\145\157\124 \
\162\165\163\164\040\011\156\143\056\040\055\040\010\157\162\040 \
\141\165\164\150\157\162\151\172\145\144\040\016\163\145\040\157 \
\156\154\171\061\066\060\064\006\003\125\004\033\023\055\107\145 \
\157\124\162\165\163\164\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\062 

END 

CKA_SERIAL_NUMBER MULTILINE_OCTAL 
\002\020\074\262\364\110\012\000\342\376\353\044\073\136\140\076\303\153

END 

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR 
CKA_Trust_Email_Protection CK_TRUST CKT_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 Universal Root Certification Authority"  
#  
# Issuer: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US  
# Subject: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US  
# Not Valid Before: Wed Apr 02 00:00:00 2008  
# Not Valid After : Tue Dec 01 23:59:59 2037  
# Fingerprint (MD5): 8E:AD:B5:01:AA:4D:81:E4:8C:1D:D1:E1:14:00:95:19 

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 "VeriSign Universal Root Certification Authority" 
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509 
CKA_SUBJECT MULTILINE_OCTAL 
\060\020\275\061\013\060\001\100\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\167\157\162\153\061\072\060\070\006\003 
\125\004\013\023\061\050\143\051\040\062\060\060\070\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\070\060\066\006\003\125\004\003\023 
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
# Trust for Certificate "VeriSign Universal Root Certification Authority"
# Issuer: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Universal Root Certification Authority,OU="(c) 2008 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Wed Apr 02 00:00:00 2008
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (MD5): 8E:AD:B5:01:AA:4D:81:E4:8C:1D:D1:E1:14:00:95:19
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 "VeriSign Universal Root Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\066\171\312\065\146\207\162\060\115\060\245\373\207\073\017\247\173\267\015\124\061\027\060\025\006\003\125\004\013\023\057\126\145\164\151\146\151\143\141\164\151\157\156\054\040\111\156\143\056\061\037\060\035\006\003\125\004\013\023\061\050\143\051\040\062\060\060\070\006\003\125\004\013\023\061\050\143\051\040\062\060\060\070\006\003

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\216\255\265\001\252\115\201\344\214\035\321\341\024\000\225\031
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\275\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\103\060\035\006\003\125
\004\013\023\061\156\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\164\167\157\162\153\061\107\206\060\070\006\003
\125\004\013\023\061\050\143\051\040\062\060\060\070\004\0126\145
\162\151\123\151\147\156\054\040\111\156\143\056\060\055\040\106
\157\162\040\114\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\070\060\066\006\003\125\004\003\023
\057\126\145\162\151\123\151\147\156\040\125\156\151\166\145\162
\163\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\200\100\032\304\144\041\263\023\041\003\016\273\344\022\032
\305\035
END
# Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US

Not Valid Before: Mon Nov 05 00:00:00 2007
Not Valid After : Mon Jan 18 23:59:59 2038


CKA_CLASS CK_OBJECT_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 3 Public Primary Certification Authority - G4"

END
<table>
<thead>
<tr>
<th>Certificate Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"

<table>
<thead>
<tr>
<th>Certificate Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_LABEL UTF8 &quot;VeriSign Class 3 Public Primary Certification Authority - G4&quot;</td>
</tr>
<tr>
<td>CK_A_LABEL UTF8 &quot;VeriSign Class 3 Public Primary Certification Authority - G4&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_ISSUER MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>

---

```
\035\131\134\118\132\115\132\101\261\224\107\200\334\236\142\303\371\124\392\201\262
\060\202\257\060\017\006\003\125\035\023\010\001\137\177\004\005\050\060
\003\001\001\137\177\006\001\166\060\003\125\035\017\001\001\137\006\004\004
\005\002\001\006\006\001\005\006\003\010\005\005\005\007\001\014
\004\214\060\137\241\135\240\133\060\131\060\127\060\125\026\011
\151\155\141\147\145\057\147\151\146\060\041\060\037\060\007\006
\005\053\016\003\001\006\003\125\035\016\004\026\004\024\263\026
\221\375\356\246\137\241\135\240\133\060\125\026\011
\150\157\141\147\145\057\147\151\146\060\041\060\037\060\007\006
\005\053\016\003\001\006\003\125\035\016\004\026\004\024\263\026
\221\375\356\246\156\033\025\026\011\031\160\075\004\003\003\003\150
\000\060\145\002\060\014\060\041\014\030\046\140\132\070\173\126\102
\340\247\374\060\204\121\221\040\054\166\115\103\075\030\035\204
\043\320\254\326\174\065\006\136\131\151\125\220\015\333\154\110
\102\035\016\252\102\002\061\000\234\075\110\071\143\130\032
\025\022\131\152\236\357\325\131\262\035\122\054\231\161\315\307
\051\337\033\052\141\173\161\321\133\363\030\035\015\072\112\252
\055\247\330\206\052\335\056\020
END
```

---

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "VeriSign Class 3 Public Primary Certification Authority - G4"

# Issuer: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",O="VeriSign, Inc." ,C=US


# Subject: CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",O="VeriSign Trust Network",C=US

# Not Valid Before: Mon Nov 05 00:00:00 2007

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


CKA_CLASS CK_OBJECT_CLASS 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 3 Public Primary Certification Authority - G4"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
```
# 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

CKA_CLASS CK_OBJECT_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\312\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\102\060\025\006\003\125\004\023\162\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\103\157\123\151\147\156\140\024\162\165
\163\164\040\116\145\164\167\157\162\153\061\072\160\007\006\100
\125\004\103\023\166\050\143\107\161\067\160\065\040\126\145
\162\151\123\151\147\156\140\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\166\125\004\003\023
\074\126\145\162\151\123\151\147\156\140\010\154\141\163\163\104
\063\104\120\165\142\154\151\143\104\120\162\151\155\141\162\171
\104\013\106\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\200\057\200\037\043\214\016\042\017\110\147\022\050\221\207
\254\263
END

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

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\140\101\126\155\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\111\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\145\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\100\030\221\164\141\156\303
\272\163\303\255\164\166\303\241\156\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\006\011\010\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
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_FALSE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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\140\43\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
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\143\141\164\151\157\156\040\123\145
\162\166\151\145\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
Open Source Used In Crosswork Common EMS Services 4.0.0 8626

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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"

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END

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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\22\264\200\223\362\165\344\314\327\362\352\046
END

CKA_ISSUER MULTILINE_OCTAL

---
# 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

# CKA_CLASS CK_OBJECT_CLASS CKC_X_509

CKA_SUBJECT UTF8 "Microsec e-Szigno Root CA 2009"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
06001300061013006001100600031250004006023002110112
0610010206001700600031250004007014010102165144141160
145163164061026060624006060312500401214015115151
14316215716314514304011416414405661047606045006
0031250403014036111511143162157163145143040145
055123172151147156157040122157157164040103101040
062060060071061037060035006011052206110206367015
0010110010206020151156146157100145055163172151147
156157056150165

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
06001300061013006001100600031250004006023002110112
0610010206001700600031250004007014010102165144141160
145163164061026060624006060312500401214015115151
14316215716314514304011416414405661047606045006
0031250403014036111511143162157163145143040145
055123172151147156157040122157157164040103101040
062060060071061037060035006011052206110206367015
0010110010206020151156146157100145055163172151147
156157056150165
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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"
# 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

END

CKA_ID UTF8 "0"

END

CKAIssuer MULTILINE_OCTAL
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:00:01:21:58:53:08: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

END

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\111\046\337\133\120\51\166\255

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\337\270\111\132\005\023\125\356\055\272\032\303\076\260\050

END

CKA_ISSUER_MULTILINE_OCTAL
\060\114\061\040\060\036\060\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
# 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

CKA_CLASS CK_OBJECT_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_SUBJECT MULTILINE_OCTAL
\060\121\060\101\130\066\011\010\006\003\125\004\006\023\002\105\123\061
\102\060\100\000\000\003\125\004\003\140\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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\121\060\101\130\066\011\010\006\003\125\004\006\023\002\105\123\061
\102\060\100\000\000\003\125\004\003\140\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\130\073\035\073\373\262\110\137

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

Open Source Used In Crosswork Common EMS Services 4.0.0 8633
# Trust for 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

END

# Certificate "Izenpe.com"
#
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007

END
# Not Valid After: Sun Dec 13 08:27:25 2037


CKA_CLASS CK_OBJECT_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
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_VALUE MULTILINE_OCTAL
END

---

Open Source Used In Crosswork Common EMS Services 4.0.0  8637
\153\011\252\030\051\356\150\111\147\060\0200\044\172\061\0260\071
\133\176\361\034\056\335\154\011\125\536\061\301\020\116\271\1273
\371\276\277\052\205\077\300\100\243\072\131\137\413\111\130\740\050
\044\33\26\125\016\52\061\15\210\272\056\163\030\275\130\207\345
\102\362\335\136\356\060\060\042\231\131\067\321\130\044\041\154\201
\354\276\155\046\346\034\344\132\040\236\107\260\254\203\131\1160
\054\065\232\257\066\064\264\135\073\070\062\250\357\343\170\211
\373\215\105\054\333\234\270\176\100\034\141\347\076\242\222\054
\11\362\315\372\230\266\051\137\363\326\173\251\037\056\240\223
\127\053\336\205\003\371\151\067\313\236\170\152\005\264\305\061
\170\211\354\172\247\205\341\271\173\074\336\276\036\171\204\316
\237\160\016\131\302\065\056\220\052\061\133\134\105\172\010\244
\056\023\233\064\016\146\173\111\253\144\227\320\106\030\171\235
\162\120\143\246\230\133\006\275\110\155\330\071\203\160\350\065
\360\005\332\212\252\274\343\333\310\002\352\174\375\202\332\302\133
\12\206\52\230\072\255\272\206\223\043\247\037\110\335\065\106
\230\262\020\150\344\245\061\302\012\130\056\031\201\020\303\1120
\16\537\352\132\026\316\021\372\337\357\120\210\055\141\377\077
\10\216\300\05\224\103\325\216\074\116\001\072\031\245\037\106\116
\16\73\20\135\345\201\042\041\020\376\224\175\204\330\223\255\326
\150\013\110\262\333\353\163\044\347\221\177\124\224\266\200\076
\235\243\074\114\162\230\127\304\240\324\314\070\047\316\325\006
\236\242\110\331\135\237\316\202\160\066\223\323\207\337\226\041
\343\131\267\104\333\221\067\360\357\111\123\263\231\310\151\114
\10\346\001\065\143\140\125\211\003\072\165\330\272\112\333\1124
\377\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154
\333\374\046\210\307
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# 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
CKA_CLASS CK_OBJECT_CLASS 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\135\1031
# 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


CKA_CLASS CK_OBJECT_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\010\006\003\125\004\006\023\002\105\125\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

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

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for Certificate "Chambers of Commerce Root - 2008"

<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issuer</td>
<td>CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid</td>
</tr>
<tr>
<td>Subject</td>
<td>CN=Chambers of Commerce Root - 2008, O=AC Camerfirma S.A., serialNumber=A82743287, L=Madrid</td>
</tr>
<tr>
<td>Not Valid Before</td>
<td>Fri Aug 01 12:29:50 2008</td>
</tr>
<tr>
<td>Not Valid After</td>
<td>Sat Jul 31 12:29:50 2038</td>
</tr>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS CCKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;Chambers of Commerce Root - 2008&quot;</td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH</td>
<td>PARTIAL OCTAL</td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH</td>
<td>PARTIAL OCTAL</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>PARTIAL OCTAL</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>PARTIAL OCTAL</td>
</tr>
<tr>
<td>CKA_TRUST_SERVER_AUTH</td>
<td>CK_TRUST CKT_NSS_TRUSTED_DELEGATOR</td>
</tr>
<tr>
<td>CKA_TRUST_EMAIL_PROTECTION</td>
<td>CK_TRUST CKT_NSS_TRUSTED_DELEGATOR</td>
</tr>
<tr>
<td>CKA_TRUST_CODE_SIGNING</td>
<td>CK_TRUST CKT_NSS_MUST_VERIFY_TRUST</td>
</tr>
<tr>
<td>CKA_TRUST_STEP_UP_APPROVED</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
</tbody>
</table>

# Certificate "Global Chambersign Root - 2008"
Open Source Used in Crosswork Common EMS Services 4.0.0
```
# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see
# current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS 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\105\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\125\064\061\013\060\001\106\003\125\004\006\023\002\105\125
```
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_ID UTF8 "0"

Open Source Used In Crosswork Common EMS Services 4.0.0 8649
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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
END


\176\226\347\236\306\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\010\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\071\157
\040\104\141\144\141\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\146\145\040\010\165\164\150\157\162\151\164
\171\040\055\040\107\157
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
CKA_CLASS CK_OBJECT_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\010\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\071\157
\040\104\141\144\141\171\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\146\145\040\010\165\164\150\157\162\151\164
\171\040\055\040\107\157

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Open Source Used In Crosswork Common EMS Services 4.0.0 8652
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\060\003\125\004\003\123\151\144\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\156\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\012
\061\020\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\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\127\066\101\036\060\11\006\003\125\004\006\023\002\125\123\060
\020\060\016\060\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\161\162\146\151\154\154\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062\060
\060\006\003\125\004\003\023\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

Open Source Used In Crosswork Common EMS Services 4.0.0 8653
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\137\437\437\312\146\355\005\362\226

CKA_ISSUER MULTILINE_OCTAL
\060\201\217\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\016\120\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\123\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\164\151\145\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\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\000\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

CKA_CLASS CK_OBJECT_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\001\01\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\013\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\001\01\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\013\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\000\001
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\006
\201\123\016\013\006\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\114\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
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\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
\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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\124

END

CKA_ISSUER MULTILINE_OCTAL
\060\020\230\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\060\016\060\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\023\036\002\100\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\145\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\033\145\156\154\145\141\164\145\040\101\165\164
\150\157\152\151\164\171\040\055\040\070\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# 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

CKA_CLASS CK_OBJECT_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

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# Trust for 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
CKA_CLASS CK_OBJECT_CLASS 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\031\010\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\033\157\155\155
\145\162\143\151\141\154
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\125\126\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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
END

# Trust for 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

# Open Source Used In Crosswork Common EMS Services 4.0.0  8663
\
237\105\000\057
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\102\145\312\276\001\232\232\114\251\214\101\111\315\300\325\177
END
CKA_ISSUER MULTILINE_OCTAL
\060\104\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\174\117\004\071\034\324\231\055
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "AffirmTrust Premium"
#
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
CKA_CLASS CK_OBJECT_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\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\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\035\006\003\125\004\003\014\023

Open Source Used In Crosswork Common EMS Services 4.0.0 8664
# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number:6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After : Mon Dec 31 14:10:36 2040
CKA_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
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_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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
\320\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\253\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\013\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 After: Mon Dec 31 12:07:37 2029


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END

CKA_ID UTF8 "0"

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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\003\004\003

END

CKA_VALUE MULTILINE_OCTAL
\060\020\003\273\060\202\020\243\240\003\002\001\002\002\003\004
\104\006\006\015\052\020\106\106\067\015\001\001\005\005
\000\006\176\061\013\060\011\006\003\125\004\006\002\032\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
# Trust for 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 (0x4444c0)

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


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


CKA_CLASS CK_OBJECT_CLASS 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\134\106\054\211\165\142\017\252\170
END

CKA_ISSUER MULTILINE_OCTAL
\060\176\061\101\136\060\011\100\063\125\004\006\023\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\144\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 After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_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 CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\137\061\130\106\001\110\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\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\013\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\130\106\001\110\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\014\011\124\101\111\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\013\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\111\206\367\015\001\001\005\005\000\060
\137\061\130\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\111\127\101\116
\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\013\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171
END

Open Source Used In Crosswork Common EMS Services 4.0.0 8673
# Trust for Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Not Valid After : Tue Dec 31 15:59:59 2030

# Certificate "Explicitly Distrust DigiNotar Root CA"
# 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
# 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

END
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\036\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\031\125\004\003\023\021\104\151 \147\151\116\157\164\162\040\122\157\157\164\040\013\010\061 \040\060\036\006\011\052\206\110\206\036\071\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\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 "Explicitly Distrusted DigiNotar PKIoverheid G2"
#
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\036\060\011\006\003\125\004\006\023\002\116\114\061 \027\060\025\000\003\125\004\012\014\016\104\151\147\151\116\157 \164\141\162\040\102\056\126\056\061\062\060\060\006\003\125\004 \003\014\051\104\151\147\151\116\157\164\141\162\040\120\113\111 \157\166\145\162\150\145\151\144\040\103\101\040\117\162\147\141 \156\151\163\141\164\151\145\040\055\040\107\062 END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS 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 Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_CLASS CK_OBJECT_CLASS 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 Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
END
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

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

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
# Trust for 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

CKA_CLASS CK_OBJECT_CLASS 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 827013747d14f45c0b8a05c5cb6b9b7b7665e5f3
CKA_CERT_MD5_HASH MULTILINE_OCTAL 827013747d14f45c0b8a05c5cb6b9b7b7665e5f3

CKA_ISSUER MULTILINE_OCTAL 827013747d14f45c0b8a05c5cb6b9b7b7665e5f3

CKA_SERIAL_NUMBER MULTILINE_OCTAL 827013747d14f45c0b8a05c5cb6b9b7b7665e5f3

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,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
CKA_CLASS CK_OBJECT_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\090\111\006\003\125\004\006\023\002\105\123
\061\107\060\071\006\003\125\004\012\203\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\140\040\144\145\040\1013
\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\154\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\054\126\145\162\141\162\161\165
\151\141\040\105\156\164\141\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\107\060\015\006\003\125\004\003\023\006
\105\103\055\101\03\103
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\363\061\013\060\060\011\006\003\125\004\006\023\002\105\123
\061\107\060\071\006\003\125\004\012\203\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\140\040\144\145\040\1013
\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\003\023\006
\105\103\055\101\03\103

Open Source Used In Crosswork Common EMS Services 4.0.0 8686
# Trust for 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
# 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

CKA_CLASS CK_OBJECT_CLASS 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
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
\246\112\362\350

END

CKA_ISSUER MULTILINE_OCTAL
\060\201\363\061\013\060\001\11\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\111\106
\040\121\055\060\070\060\061\061\067\066\055\11\110\51\106\150\060
\046\006\003\012\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\165\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\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\000\063\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\015\156\164\151\164\114\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\001\150\006\003\125\004\003\023\006

END
# Certificate "Hellenic Academic and Research Institutions RootCA 2011"

# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011, O=Hellenic Academic and Research Institutions Cert. Authority, C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011, O=Hellenic Academic and Research Institutions Cert. Authority, C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After: Mon Dec 01 13:49:52 2031

CKA_CLASS CK_OBJECT_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 2011"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_SUBJECT MULTILINE_OCTAL

060201225061013060000110060003125004006023002107100
06110400601020060003125004012023007311010114515411541145
156115114304010114314414515515114304014111561144
0401221215163143116214315004001111561631641651164
165164165156163040103145162164056040101165164
1561571621511641710611000060076006003125004003032
0671010145154154145155151143040101143141144145155
151143040141156144040122145163145141164143150040
1111561631641511641651641511571561630401221571157
16410310104062060061061

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

060201225061013060000110060003125004006023002107100
06110400601020060003125004012023007311010114515411541145
156115114304010114314414515515114304014111561144
0401221215163143116214315004001111561631641651164
165164165156163040103145162164056040101165164
1561571621511641710611000060076006003125004003032
0671010145154154145155151143040101143141144145155
151143040141156144040122145163145141164143150040
1111561631641511641651641511571561630401221571157
16410310104062060061061

END
# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions Cert. Authority,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After: Mon Dec 01 13:49:52 2031
CKA_CLASS CK_OBJECT_CLASS 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 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\105\145\233\171\003\133\230\241\141\1265\121\056\0254\332\130
\011\110\042\115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\237\114\113\163\133\171\351\372\272\034\357\156\31\325\311
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\006\011\006\003\125\004\006\023\002\2107\122
\061\104\060\012\006\003\125\004\012\023\073\211\0145\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\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\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\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

# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN=\"Trustwave Organization Issuing CA, Level 2\",O=\"Trustwave Holdings, Inc.\",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\006\011\006\003\125\004\006\023\002\2105\123
\061\104\060\012\006\003\125\004\012\023\073\211\0145\154\154\145
\157\151\163\061\020\006\001\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\010\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\063\060\061\006\003\125\004
\003\023\052\214\162\165\163\164\167\141\166\145\040\117\162\147

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# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After : Apr 15 21:09:30 2021 GMT

# Certificate "Actalis Authentication Root CA"
# 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 (MD5):
```
```

Fingerprint (SHA1):
```
```

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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\136\026
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\137\003\125\004\006\023\002\111\124\061
\160\060\014\006\003\125\004\007\014\005\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\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\127\010\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 "Trustis FPS Root CA"
#
# Issuer: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Subject: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB
# Not Valid Before: Tue Dec 23 12:14:06 2003
# Not Valid After: Sun Jan 21 11:36:54 2024
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustis FPS Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\105\061\013\060\001\100\006\003\125\004\006\023\002\107\102\061
\030\060\026\006\003\125\004\012\023\017\124\162\165\163\164\151
\163\040\114\151\155\151\164\145\144\061\034\060\032\006\003\125
\004\013\023\023\124\162\165\163\164\151\163\040\106\120\123\040
\122\157\157\164\040\103\101
# Trust for “Trustis FPS Root CA”

Issuer: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB


Subject: OU=Trustis FPS Root CA,O=Trustis Limited,C=GB

Not Valid Before: Tue Dec 23 12:14:06 2003

Not Valid After: Sun Jan 21 11:36:54 2024


CA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CA_TOKEN CK_BBOOL CK_TRUE

CA_PRIVATE CK_BBOOL CK_FALSE

CA_MODIFIABLE CK_BBOOL CK_FALSE

CA_LABEL UTF8 “Trustis FPS Root CA”

CA_CERT_SHA1_HASH MULTILINE_OCTAL

CA_CERT_MD5_HASH MULTILINE_OCTAL

CA_ISSUER MULTILINE_OCTAL

END
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

# 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

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# 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

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0 8704

# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040

CKA_CLASS CK_OBJECT_CLASS 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\062\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

CKA_CLASS CK_OBJECT_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

END

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

#


```
\334\341\014\135\273\240\012\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\317\030\112\322\332\355\356\346
\047\161\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\135\360\062\274\163\277\023\142\012\237\307\271\227
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\332\372\367\372\146\204\354\006\217\024\120\275\307\302\201\245
\274\251\144\127
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\075\073\030\236\054\144\132\350\325\210\316\016\371\067\302\354
END

CKA_ISSUER_MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\112\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 After : Sat Oct 01 23:59:59 2033


CKA_CLASS CK_OBJECT_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_SUBJECT MULTILINE_OCTAL
\060\201\202\061\013\060\001\125\001\006\003\125\001\006\006\023\002\104\105
\061\053\060\051\006\003\125\001\012\014\042\124\055\123\171\163
\164\145\155\163\040\103\145\156\164\145\162\160\162\151\163\145\040
\123\145\162\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\001\013\014\026\124\055\123\171\163\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\001\006\006\023\002\104\105
\061\053\060\051\006\003\125\001\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\160\151\143\145\163\040\107\155\142\110\061\037\060
\035\006\003\125\001\013\014\026\124\055\123\171\163\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
\002\001\001
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# Not Valid After : Sat Oct 01 23:59:59 2033

END

CKA_CLASS CK_OBJECT_CLASS 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"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\125\246\162\076\313\362\354\315\303\043\164\160\031\235\052\276
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\312\373\100\250\116\071\122\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\124\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\160\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\03\125\004\003\140\034\124\055\124\143\154\154\154
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END
# Certificate "EE Certification Centre Root CA"
# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After : Tue Dec 17 23:59:59 2030

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TOKEN CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\0165\061\013\060\0011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\001\140\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\040\013\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\010\061\030\060
\026\006\011\050\205\206\110\206\367\015\000\101\110\026\011\160\153
\151\100\163\153\056\145\145
END

CKA_SUBJECT MULTILINE_OCTAL
\060\0165\061\013\060\0011\006\003\125\004\006\023\002\105\105\061
\042\060\040\006\003\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
\153\165\163\061\050\060\046\006\003\125\004\003\014\037\105\105
\040\013\145\162\164\151\146\151\143\141\164\151\157\156\040\103
\145\156\164\162\145\040\122\157\157\164\040\103\010\061\030\060
\026\006\011\050\205\206\110\206\367\015\000\101\110\026\011\160\153
\151\100\163\153\056\145\145
END
# Trust for "EE Certification Centre Root CA"
# Issuer: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Subject: E=pki@sk.ee,CN=EE Certification Centre Root CA,O=AS Sertifitseerimiskeskus,C=EE
# Not Valid Before: Sat Oct 30 10:10:30 2010
# Not Valid After : Tue Dec 17 23:59:59 2030

CKA_NSS_MOZILLA_CA_POLICY CBBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CBBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CBBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CBBOOL CK_TRUE
CKA_PRIVATE CBBOOL CK_FALSE
CKA_MODIFIABLE CBBOOL CK_FALSE
CKA_LABEL UTF8 "EE Certification Centre Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\311\250\271\347\125\004\012\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\136\210\324\175\032\112\176\375\204\056\122\353\001\324\157

END

CKA_ISSUER MULTILINE_OCTAL
\060\165\060\103\060\011\006\003\125\004\006\023\105\105\061
\042\060\004\000\000\03\125\004\12\014\031\101\123\040\123\145\162
\164\151\146\151\164\163\145\145\162\151\155\151\163\153\145\163
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\124\200\371\240\163\355\077\000\114\312\211\330\343\161\346\112
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

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=T..RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=T..RKTRUST Elektronik
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\010\047
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
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=TR,RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=TR,RKTRUST Elektronik Sunucu Sertifikas.. Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=ilet@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez Bankasi,L=Lefkosa,ST=Lefkosa,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\075\060\006\003\125\004\003\14\1064\124\303
\234\122\113\124\122\125\123\124\100\154\145\153\164\162\157
\156\151\153\040\123\165\165\143\165\040\123\145\156\164\151
\146\151\153\141\163\304\261\040\100\151\172\155\145\164\154\145
\162\151\060\101\306\010\110\003\125\004\006\023\002\124\122\061
\136\060\134\006\003\125\004\012\141\125\124\303\234\122\113\124
\122\125\123\124\040\102\151\154\147\151\040\304\260\154\145\164
\151\035\237\151\155\040\166\145\040\102\151\154\151\305\237\151
\155\040\107\303\274\166\145\156\154\151\304\237\151\040\110\151
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\040\050
\143\051\040\113\141\163\304\261\155\040\040\062\060\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\010\144
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 "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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL</td>
</tr>
</tbody>
</table>
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"

END

# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009,O=D-Trust GmbH,C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After: Mon Nov 05 08:50:46 2029

CKA_CLASS CK_OBJECT_CLASS 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_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\013\060\011\100\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\11\006\105\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\104\062\040\105\126\040\062\060
\060\071
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\100\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165\163
\164\040\107\155\142\11\006\105\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\104\062\040\105\126\040\062\060
\060\071
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\03\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\105\220\61\102\63\67\15\15\10\013\005
\000\060\120\061\013\060\011\106\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\014\055\124\162\165
\163\164\040\01\107\155\142\11\006\105\060\050\006\003\125\004\003
\014\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103
\154\114\163\163\040\063\040\103\101\104\062\040\105\126\040\062
\060\060\071\060\03\202\027\15\15\10\016\106\060\065\060\070\065
\060\060\066\13\202\027\15\062\071\061\061\060\065\060\070\065
\060\060\066\13\202\060\120\061\013\060\011\106\006\003\125\004\006\023\002
\110\10\015\060\125\060\023\006\003\125\004\012\014\014\104\055\124
\162\165\163\164\040\107\155\142\11\006\105\052\060\050\006\003\125
\004\012\014\014\104\055\124
\162\165\163\164\040\107\155\142\11\006\105\052\060\050\006\003\125
\004\012\014\014\104\055\124
\004\03\011\14\04\055\124\122\125\123\124\040\122\157\157\164
\040\103\101\154\114\163\163\040\063\040\103\101\040\062\040\105\126
\040\062\060\060\071\060\020\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\020\022\020\001\001\000\23\361\020\164\027\207\267\260\240
\216\275\174\004\317\276\142\274\23\135\202\227\322\172\012\147
\226\070\011\13\66\020\116\225\042\163\231\215\332\202\05\034\700
\037\40\216\163\042\267\216\230\000\027\40\107\254\241\154\373\326
\171\104\5\11\255\36\031\14\4\332\210\076\051\270\017\011\13\23\064
\335\063\365\142\321\341\315\031\135\135\030\117\114\13\025\6342
# 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

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER 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

CKA_CLASS CK_OBJECT_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
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL

END
# 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

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS 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"
# 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 After : Tue Dec 31 15:59:59 2030

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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\003\014\011\101\103\103
\126\122\101\111\132\061\061\101\101\103\103\126\061\015\060\013\006\003\125\004
\012\014\004\101\103\013\013\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END

CKA_ID UTF8 "0"

OKEN SASA Used in Crosswork Common EMS Services 4.0.0 8729
# 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 After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS 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\001\110\060\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\010\103\101\061\013\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\013\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
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
CKA_CLASS CK_OBJECT_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\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\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\022\003\050\070\060\020\023\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\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\010\060\036\027\015\060\067\010\060
\061\070\061\062\060\065\060\132\027\150\063\062\061\060\061
\070\061\062\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\164\040\103\101\040\166
\160\020\023\040\240\015\006\011\052\206\110\206\367\015\001
\001\001\005\000\003\020\002\017\000\060\020\002\012\002\020\002
\001\000\030\227\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\033\245\322\162\174\020\155\364\067\267\345
\346\174\171\352\14\265\202\213\256\110\266\254\000\334\145\165
\354\052\115\137\301\207\365\040\145\032\012\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\144\172\227
# Trust for “TeliaSonera Root CA v1”
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# 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

CKA_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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"
Open Source Used in Crosswork Common EMS Services 4.0.0 8736

# Certificate "E-Tugra Certification Authority"

# Issuer: CN=E-Tugra Certification Authority, OU=E-Tugra Sertifikasyon Merkezi, O=E-Tugra Bilişim Teknolojileri ve Hizmetleri Ayrıntıları, 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-Tugra Bilişim Teknolojileri ve Hizmetleri Ayrıntıları, L=Ankara, C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After: Fri Mar 03 12:09:48 2023

CKA_SSL_CLIENT_AUTH = C_TRUE
CKA_SSL_SERVER_AUTH = C_TRUE
CKA_X509_ISSUER_CERT = C_TRUE
CKA_X509_ISSUER_PUBLIC = C_TRUE
CKA_X509_SUBJECT_PUBLIC = C_TRUE
CKA_X509_SIGNED = C_TRUE
CKA_X509_CERT_HASHVAL = C_TRUE

CKA_CLASS = CKO_CERTIFICATE
CKA_TOKEN = C_TRUE
CKA_PRIVATE = C_FALSE
CKA_MODIFIABLE = C_FALSE
CKA_LABEL = UTF8 "E-Tugra Certification Authority"

CKA_SUBJECT_MULTILINE_OCTAL
\060\020\061\017\060\000\125\004\006\023\002\124\122
\061\017\060\001\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\150\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\060\031\125\004\013\014\035\105\055
\124\141\040\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\020\061\017\060\001\110\060\003\125\004\006\023\002\124\122
\061\017\060\001\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\150\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\060\031\125\004\013\014\035\105\055
\124\141\040\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

Open Source Used In Crosswork Common EMS Services 4.0.0 8736
# Trust for "E-Tugra Certification Authority"

# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikaşyon Merkezi,O=E-Tugra E.B.G. Bilişim Teknolojileri ve Hizmetleri A.Ş.,L=Ankara,C=TR
# Serial Number: 6a:68:3e:9c:51:9b:cb:53

CKA_CLASS CK_OBJECT_CLASS 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\003\125\004\006\023\002\124\122
\217\303\122\071
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111
END

CKA_ISSUER_MULTILINE_OCTAL
\060\201\262\061\103\060\011\006\003\125\004\006\023\002\124\122
\061\107\066\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\115
\304\237\162\141\040\105\021\107\040\102\151\154\151\130\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
# 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 After: Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF: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 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\253\142\026\024\277\131\040\066\000\171\240\240\042\153\214\325\362\141\322\270\054
\331\202\112\060\015\006\011\052\206\110\206\367\015\000\001\013
\005\000\003\202\001\000\006\010\003\202\141\013\037\164\350\162
\066\036\155\371\115\236\372\042\250\034\121\126\317\315\273\237
\352\253\221\031\070\257\252\174\025\115\363\266\243\215\245\364
\216\366\104\251\247\350\041\225\255\076\000\142\026\210\360\002
\272\374\141\043\346\063\233\060\017\212\153\066\142\173\255\004\043
\204\130\145\342\333\053\212\347\045\123\067\142\123\137\274\332
\001\142\051\242\246\047\161\346\072\042\176\301\157\035\225\160
\040\011\200\070\643\337\352\237\025\200\345\272\327\172\330\133\165
\174\005\172\051\107\176\100\250\061\023\167\315\100\073\264\121
\107\172\056\021\134\107\021\336\235\146\320\213\325\124\146\372
\203\125\352\217\430\205\121\011\033\351\157\263\316\342\005\204\311
\057\076\170\205\142\156\311\1137\301\170\143\164\130\300\110\030
\014\231\071\353\244\314\032\265\171\132\215\025\234\330\024\015
\366\172\007\127\037\042\203\005\055\074\233\045\046\075\030\263
\251\103\174\310\310\253\144\217\016\243\277\234\033\232\060\333
\332\320\031\056\252\027\043\361\137\063\200\166\344\315\255\03\117
\005\047\216\023\241\156\302

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFT CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFT CK_BBOOL CK_FALSE

Open Source Used In Crosswork Common EMS Services 4.0.0 8742
# 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

CKA_CLASS CK_OBJECT_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
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
OPEN SOURCE USED IN CROSSWORK COMMON EMS SERVICES 4.0.0

```
\015\001\001\013\005\000\000\003\202\000\013\000\000\046\167\064\333\224
\110\026\052\010\013\025\004\076\006\220\014\030\324\225\013\012\0207
\037\271\73\323\007\071\344\432\076\173\262\075\116\355\237\043
\275\227\363\153\134\357\356\075\100\246\337\241\223\241\012\0206
\254\357\040\032\017\001\012\071\170\036\031\033\004\061\064\004\001
\246\022\072\023\303\047\334\330\017\017\134\030\143\377\23\017
\016\22\153\165\026\341\041\374\330\046\307\017\267\246\317\130
\162\161\176\272\341\115\225\070\073\311\257\155\241\264\301\1354
\211\366\264\017\070\265\342\144\334\045\317\246\333\353\232\134
\231\241\305\103\336\375\346\332\325\326\132\015\013\034\026\267\302
\265\024\357\264\021\377\016\025\265\365\365\333\030\275\353\132
\247\360\126\042\225\051\074\145\124\306\025\250\075\206\236\315\203
\226\150\172\161\201\211\341\013\341\352\021\033\150\010\314\151
\236\354\236\011\236\010\406\046\172\342\027\012\161\075\353\344
\112\244\322\333\030\131\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\020\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
CKA_CLASS CK_OBJECT CLASS 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\046\267\152\106\113\125
\006\002\254\041
END
CKA_CERT MD5 HASH MULTILINE OCTAL
\125\627\130\046\062\113\254\177\135\146\314\167\224\273\052\167\126
END
CKA_ISSUER MULTILINE OCTAL
\060\074\061\036\060\003\040\060\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\015\056\060\013\030\003\125\004\012\014\004\101\164\157
\163\061\013\060\011\006\003\125\004\006\023\002\104\105
END
```
# Certificate "QuoVadis Root CA 1 G3"

# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# 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):
CKA_CLASS CK_OBJECT_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\012\121\165\157\126\141\144\151\163\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\012\121\165\157\126\141\144\151\163\040\114\151\155\151\164\145\144\061\136\003\125\004\003\125\012\121\165\163\040\122\157\151\164\040\103\101\040\061\040\010\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\170\130\056\255\054\031\113\134\067\007\065\064\023\150\026\226\324\145\223
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\140\060\020\003\110\240\003\002\001\002\002\002\024\170\130\157\056\255\054\031\113\134\067\007\065\064\023\150\026\226\324\145\223
END
Open Source Used In Crosswork Common EMS Services 4.0.0

8747

005000060011060101306001100600301250004006023002102
115061031060027060003012500040120232010211651571126
1411441511630401141511551164145144061036060034
0060031250040030232051231165157126141144151163040
1221157115716404010310104040107063060036027015
0610620060610610620610670620670640641320227015064
0620600610610620610670620670640641320600110061013
060011006003125004006023002102115061031060027006
003125004012023201211651571261411441151163040114
151155116414514406103606034006003125004003023
0251211651571261411441511630401221157157164040103
101040061040107063060202020242060015006011052206
1110206367015001001001000000302020201700000600202
0020120020200200100024026712020216351362154100
26400423420527210613123340553440212510040740333125
3011347113006003504426430335720536214054341301075
337202346117255107207154335413311301112325273217
3542072541172702232206354075003321122001322065236
2543323601233111460743342545002001332044323073250
0021062572440343433701631301662673666162200150265
360301314317327310611434530302060060101215027176065
35330533727301623430021520734321070205147372076
3072533400231234005030230317223365261222264374043
3233173253040471113402360574233010243213135052041
340347011252123322175176317032011227241335005004
317241112217213166020105241370323207024167133220
066007021012330760063721221361433052460003762453351
0220132206265222071116200301111422752601400261156264
33504533020031463353630043211100342116213206364157
34520324004720411360040310365220275060075034357250
11127407023324242442262311423321513000012262566313
304121064352014252377041216131217112134344141232
24732235105217021512107502705253562421312162511134
36336053712200423452101051611335221231154172237075
0751230187143636627602611502401362560130433743172017
2520421660531112410200353443231040432202102373306
052346327365232263130360570602110100331242242625
12300433540101670342251351413213132112341372421112
221223235704125211102601025027514105061311164255
20536623310526121332143542006211513721304072074
11110370632051310533331301165103151163373153161
17515360333704114175306243056310225171313163242216
116115044373136344004276162033246404705511132231
17223271340110402671177224271117361015034136210102
05300212673472211333236154364152337214006230003255
314050357245107363123002030010001243102060100
106001700600312503502301001037700400560003001001
377060016006003125035017001000137700400404003200101

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# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# 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):
# Certificate "QuoVadis Root CA 2 G3"

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

# Certificate CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "QuoVadis Root CA 2 G3"

CKA_CLASS CK_OBJECT_CLASS 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
0332163521272226051032311107135227010122010321631163
1002231711147
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
2442741330773760672323721443603423720050750013253
END

CKA_ISSUER MULTILINE_OCTAL
060110060110060101050304010702040503050304020103020101150161
0310600270060003125000401230201211651571126141144
1511630401141511551151164145144406103606000340060003
125000400302302512111651571126141114415111630401221157
15716404010310400610400107063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202417011301370562550540311113343067007065064023
050265226324145223
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "QuoVadis Root CA 2 G3"
#
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\037\165\050\002\023\034\062\040\107\063
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
\106\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\115\155\151\164\145\144\061\036\060\003\064\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\121\11\233\065\362\316\270\053\073
\133\247\046\360\165\050
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "QuoVadis Root CA 3 G3"
#
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# 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):

CKA_TRUST_EMAIL_PROTECTION CKTRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CKTRUST 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
# 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):

CKA_CLASS CK_OBJECT_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\n\151\163\040\114\151\155\151\164\145\144\061\136\060\034\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157\n\157\164\040\103\101\040\063\040\107\063\n
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\n\151\163\040\114\151\155\151\164\145\144\061\136\060\034\006\003\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157\n\157\164\040\103\101\040\063\040\107\063\n
END

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

CKA_VALUE MULTILINE_OCTAL
\060\020\005\140\060\020\022\003\110\240\003\110\024\001\002\002\024\056\n\365\233\240\202\050\247\333\172\377\325\243\251\356\275\134\032\003\020\152\035\060\015\006\011\052\206\110\206\367\150\001\001\013\n\005\000\060\110\066\110\137\013\006\03\125\004\006\023\002\102\115\061\031\060\027%\006\003\125\004\012\023\020\121\165\157\126\n\141\144\151\163\040\114\151\155\151\164\145\144\061\136\060\034\006\003\020\025\121\165\157\126\141\144\151\163\130\040\003\023\025\121\165\157\126\141\144\151\163\130\040
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\030\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\241\337\211\127\003\227\103\260\327
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\063\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\135\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
# 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):
CKA_CLASS CK_OBJECT_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
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0060145061013060011006000312500400006023002125123061
025060023006000312500400120230140140151147151103145
16216404011151643061031060270060003125004013023
02016716716705611441511471511031451621640568143157
155061044060042060003125004003023033104151147151
1031451621640401011163163165162145144040011104040
122157157164040107062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202000132230340723260711147352147043277303257232
364113

END

CKA_VALUE MULTILINE_OCTAL
00602020003226060202002176240003002001002002020013
2330340723260711147352147043277303257232364113060
101500601105202061102063670150010010101305000060145
06110130600110060003125004006023002125123061025060
0233060031250040120230140140151147151103145162164
104011151643061031060270060003125004013023020167
16716705611441511471511031451621640568143157155061
044060042060003125004003023033104151147151103145
162164040101163163165162145144040111104040122157
157164040107062060036027015061063060070060601061
062060606060606013202701506307006061061065061062
060060606060601320601450601013060001106000031250040006
0233002125123061025060023006003125004012023014104
15114715110314516216404011115614306103106027006
0233050040130230201671671670561144151147151103145
1621640561143157155061044060042060003125004003023
0331104151147151103145162164040101163163165162145
14404011110404012215715716404010706206002001001042
0600150060011052020611020636701500100101010005000003
1400010170000600202001012020202020200100100000331347050
05712270770666121121023036436370152036061124200
2372551241012651073337226250324257257200552701012317
165375211245175044372343042014053274225207103063
277031151001006220000275014115020376007265347034
156042125061145227275332302733220361423633333352154
120214077204014226317267313003340312155241024114
0332113353555000260122142572211542610700022332132
022010300000026003405320133216716106066233256316171
207334220216034601116416011251512572431501237277335
Open Source Used In Crosswork Common EMS Services 4.0.0 8758

# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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

CKA_NSS_MOZILLA_CA_POLICY CPBBOOL CP_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CPBBOOL CP_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CPBBOOL CP_FALSE

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# Certificate "DigiCert Assured ID Root G3"

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

# Certificate "DigiCert Assured ID Root G3"


```plaintext
\003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113
\165\164\117\131\043\133\160\163\162\165\162\136\174\211\136\031\72\222
\162\141\126\136\020\222\131\126\271\203\360\317\221
\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130
\046\066\175\325\144\064\206\071\002\060\174\066\123\160\060\345
\142\143\072\231\134\140\262\143\073\133\064\137\036\332\020\020\222\161
\136\222\102\247\133\135\244\156\222\231\406\232\365\041\146\307\057
\352\226\143\152\145\105\222\225\001\264
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G3"
# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
\165\164\111\123\110\306\031\113\079\122\100\046\237\334\017\110
\054\253\280\211

END

CKA_CERT MD5 HASH MULTILINE OCTAL
\174\177\145\061\014\201\137\215\272\076\231\134\255\156\373
END

CKA_ISSUER MULTILINE OCTAL
\060\145\061\013\060\011\100\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\23\101\141\105\151\147\151\103\023
\162\164\040\111\115\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\144\151\147\151\143\145\152\164\056\143\157
\155\061\104\090\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
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# Certificate "DigiCert Global Root G2"

# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):

CKA_CLASS CK_OBJECT_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\103\066\001\110\066\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\014\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\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036\066\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\103\066\001\110\066\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\014\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\167\056\144\151\147\151\143\145\162\164\056\143\157\155\061\040\060\036\066\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\125\124\027\3\050\144\126\1\350\011
\372\345
END

CKA_VALUE MULTILINE_OCTAL
\060\202\020\003\072\361\1346\247\021\125\124\027\3\050\144\126\1\350\011
\372\345
END
\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\\101\111\105\\244\336
\\244\270\\232\\130\335\033\\175\\122\\237\\216\\131\\103\\210\\201\144\236
\\046\325\\157\\259\\335\\015\\306\\067\\175\\355\\003\\222\\033\\345\\167\\137
\\166\356\\074\\215\304\\135\\126\\133\\242\\331\\146\\156\\263\\065\\067\\345
\\062\\266
END

CKA_NSS_Mozilla_ca_policy CK_BBOOL CK_TRUE
CKA_NSS_Server_distrust_after CK_BBOOL CK_FALSE
CKA_NSS_Email_distrust_after CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\033\052\104\254\122\102\066\012\375\162\110\033\052\104
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\140\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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G3"
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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):

CKA_CLASS CK_OBJECT_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\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
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END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
060142061013060001100600031250004006002001250123061
0250060203006003125000401202301410415114711511031145
1621640400111156114306110310600270060031250004013023
020167167167056144151147115114311451621640561431157
15506104106003700600312500040030230301041511471151
1031145162164040124116216511631164114514404012211571157
164040107064

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202000052330331272362160410623420711007275247167
165134

END

CKA_VALUE MULTILINE_OCTAL
06020205220060202003170240003002001002002020005
2300331272362160410623420711007275247167165134060
0150060110520206110206367015001010140050000060142
061013060011006003125004006020302125123061025060
02300600312500401202301410415114711511031145
162164040124116216511631164114514404012211571164040
107064060036027015056106306070066061061062060060
06006001320207150630706061061065061062060060060
060013200600142060103060011066003125004006023002125
12306102500600230060031250040120230141041511471151
103114516216404011115611430611031060027006003125004
013020302016716716705614415114711511431145162164056
14313151550610410600370060031250040030230301041151
147115110311451621640401241162165116311641145144040122
157115714404010704060020200204206001500601105206
1102063670150010100101050000032020020170000060020
0020010200202000100027734622011631510336273344135
1112040600420600151063354302247045056311040705362
12230031313023410512470751030253166232315256173033
20401504060037363033244070263531263062271155035
25326217116213201322344137312620050741122017122030
30623620254517627023725112702613112516257150023
16030212622721652311521630622243210201040200056337
2020363007204346116404731155161342055104033356040325
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;DigiCert Trusted Root G4&quot;</td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>

# Trust for "DigiCert Trusted Root G4"

# Issuer: CN=DigiCert Trusted Root G4,OU=www.digicert.com,O=DigiCert Inc,C=US
# 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


\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
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "COMODO RSA Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\033\060\031\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\000\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\161\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\013\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\024\103\117\115\117\104\117\040\122\123\101
\040\013\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\020\120\050\061\103\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\161\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\013\101\040\114\151\155\151\164\145\144\061\053\060\051\006

END
# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# 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

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\156\157\016\145\117\154\207\207\363\156\240\371\165\245\233
\100\350\123\262\047\235\112\271\300\167\041\215\377\207\362\336
\274\214\357\027\337\267\111\013\321\362\256\060\001\032\016\116
\166\355\021\374\365\351\126\262\175\277\307\155\012\223\214\245
\320\300\266\035\276\072\116\224\242\327\156\154\013\302\212\174
\372\040\363\304\344\345\315\012\223\214\245
\265\024\151\146\016\202\347\315\316\310\055\246\121\177\041\301
\065\123\205\006\112\135\237\255\273\033\137\164
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_SERIAL_NUMBER MULTILINE_OCTAL

\033\061\260\161\100\066\314\024\066\221\255\204\076\375\354\030
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\103\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\020\223\107\162\145\141\164
\145\162\040\115\141\114\150\141\164\151\040\161\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\110\040\114\151\155\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
# Certificate "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\002\020\114\252\371\312\333\143\157\340\037\367\116\330\133003
\206\235
END

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

END
# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

# Certificate "USERTrust ECC Certification Authority"

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

CKA_CLASS CK_OBJECT_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\041\023\060\011\006\000\031\125\004\006\023\002\125\123
\061\023\060\021\006\000\031\125\004\010\023\012\116\145\167\040\0112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\033\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\012\123\105\122\124\122
\125\123\124\040\011\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\030\040\013\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_VALID_SIGNATURE CK_BBOOL CK_TRUE
CKA_CLASS CK_OBJECT_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\041\023\060\011\006\000\031\125\004\006\023\002\125\123
\061\023\060\021\006\000\031\125\004\010\023\012\116\145\167\040\0112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\033\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\012\123\105\122\124\122
\125\123\124\040\011\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\030\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS 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\210\060\011\006\003\012\004\006\023\002\125\123
\061\203\060\021\006\003\012\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\010\024\060\220\006\003\012\004\007\023\013
\112\145\162\163\145\171\040\033\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\010\040\013\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\313\222\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 - R4"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# 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
CKA_CLASS CK_OBJECT_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\021\052\070\244\034\226\012\000\336\102\262\050\245\013\350
\064\230\002
END
CKA_VALUE MULTILINE_OCTAL
\060\020\000\134\106\020\020\101\207\240\003\002\001\000\020\021\052
\070\244\034\226\012\004\336\102\262\050\245\013\350\064\230\002
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R4"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# 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
CKA_CLASS CK_OBJECT_CLASS 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
\151\151\126\056\100\200\364\044\241\347\031\237\024\272\363\356
\130\253\152\273
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\040\360\047\150\321\176\240\235\016\346\052\312\337\134\211\216
END
CKA_ISSUER MULTILINE_OCTAL
# Certificate "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# 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

# Certificate "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# 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

# Certificate "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# 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
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\000\003\002\001\000\002\002\021\140
\131\111\134\040\062\273\125\371\012\167\212\161\371\112\330\154
\060\012\000\060\10\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\033\103\040\122\157\157\164\040\103\101\040
\055\040\122\065\061\102\036\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\102\036\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\106\061\063\060\060\060\060\060\060\060\132\027
\101\150\063\070\060\101\071\060\063\060\106\060\060\132\060\120
\061\114\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\102\036\060\021\006\003\125\004\012\023
\012\107\154\157\142\141\154\123\151\147\156\061\102\036\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
\021\100\040\000\060\042\003\142\000\004\101\150\162\226\373\175\135\277
\351\107\181\141\137\023\070\132\266\351\173\036\222\072\110\131\034
\360\142\061\055\300\172\050\376\012\324\173\142\263\260\134\227\347
\105\132\130\372\132\111\167\155\103\242\300\02\114\056\041\120\037\172
\335\135\070\400\131\324\103\135\115\012\157\106\102\131\104\036
\120\134\135\101\041\140\072\124\01\014\072\205\112\146\237\235
\131\112\145\122\146\207\224\01\040\172\02\11\146\237\235
\131\112\145\122\146\207\224\01\040\172\02\11\146\237\235
\125\035\107\01\001\037\770\004\004\003\002\001\006\006\017\006\003
\125\035\023\010\001\037\770\004\005\060\003\001\001\037\770\060\035\006
\003\125\035\160\004\026\006\004\024\075\346\051\110\233\352\007\312
\041\110\141\120\040\336\156\336\322\203\322\237\131\060\012\060\110
\052\206\110\316\075\004\003\003\003\015\000\006\145\002\061\1000
\134\51\102\022\111\156\333\306\061\127\201\110\131\122\227\307\373\337
\232\342\175\022\311\355\174\144\433\331\330\054\251\131\263\331\240
\347\136\135\116\013\123\234\133\166\051\124\01\114\06\04\01\152\142
\002\060\161\132\226\265\171\134\352\073\341\170\01\025\205\165\222
\073\351\134\357\110\357\015\164\042\250\010\342\156\035\111\1316
\130\7\014\274\247\141\151\361\167\073\341\052\313\371\053\363\146
\220\067
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign ECC Root CA - R5"
CKA_CLASS CK_OBJECT_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\000\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\104\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\104\116\145\144\145\162\154\141\156\144\145\156\061
\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\000\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\104\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\104\116\145\144\145\162\154\141\156\144\145\156\061
\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
\123\242\071\060\015\006\011\052\026\110\026\036\015\001\001\013
\005\000\006\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
\144\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\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\103\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\020\020\020\020\015
\006\011\052\206\110\026\036\015\001\001\001\005\000\003\202\002
\017\000\006\020\020\020\020\020\020\010\000\276\062\242\124\017
\160\033\054\134\133\133\154\034\244\121\350\025\052\263\314\112
\064\362\260\137\363\016\307\034\075\123\036\010\010\150\303\157
\075\255\302\236\314\202\147\007\047\207\150\161\072\237\165\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 "Staat der Nederlanden Root CA - G3"
# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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\061\147\007\333\020\057\031\214\065\120\140\321\013\364\067

END

CKA_ISSUER MULTILINE_OCTAL
\060\032\061\013\060\001\100\06\03\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_ID UTF8 "0"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020040000230242071
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_CLASS CK_OBJECT_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\000\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\000\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
\145\162\165\163\164\040\103\157\155\155\145\162\143\151
\140\154\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\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\020\003\110\240\003\002\001\002\020\012
\001\122\020\000\000\000\000\105\043\310\104\265\000\000\000\000\020\060
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\112
\061\103\060\011\006\003\125\004\006\023\002\125\123\061\022\060
\020\000\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\157\164\040\103\101\040\061\106\036\027\015\061\064
\060\061\061\060\061\061\070\061\062\062\063\132\027\015\063\064\060
\061\106\061\060\061\070\061\062\062\063\132\060\112\061\103\060\011
\006\060\012\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\155\145\162\143\151\141\154\040\122\157\157
\164\040\103\101\040\061\106\020\002\042\060\015\060\110\052\206
\110\206\367\015\001\001\001\005\000\003\202\002\017\000\060\020
\002\012\125\004\022\002\001\100\247\120\031\135\067\231\075\324\063
\106\361\157\121\141\202\262\251\117\217\147\211\135\204\333\123
\335\014\050\331\327\360\377\256\225\103\162\231\371\265\135\174
\121\230\1210\234\061\120\164\321\010\015\174\315\233\041\253\103
\342\254\255\136\206\156\363\011\122\037\132\062\275\242\353\224
\371\1350\134\012\354\377\230\032\257\161\263\264\123\237\116\207
# 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:b5:00:00:02
# 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
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\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):
CKA_CLASS CK_OBJECT_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\100\060\003\125\004\006\023\002\125\123\061
\022\060\020\006\000\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\105\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\100\060\003\125\004\006\023\002\125\123\061
\022\060\020\006\000\003\125\004\012\023\011\111\144\145\156\124\162
\165\163\164\061\105\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
# 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
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE

# 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):
CKA_CLASS CK_OBJECT_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\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\060\003\125\004\012\023\015\010\51\56\16\A162\165
\163\164\054\040\011\11\165\143\056\061\050\060\046\060\003\125\004
\101\023\037\123\145\145\040\167\167\167\065\145\156\16\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\060\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\16\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\14\145\040\165\163\145\040\157\156\154\171\161\162\060\060
\060\00\003\125\004\003\023\051\105\156\16\162\165\163\164\160\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\171\156\040\101\165\164\150\157\162\151\116\171\040\055\040\107
\1062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\026\060\024\060\003\125\004\012\023\015\010\51\56\16\A162\165
\163\164\054\040\011\11\165\143\056\061\050\060\046\060\003\125\004
\101\023\037\123\145\145\040\167\167\167\065\145\156\16\162\165
\163\164\056\156\145\164\057\154\145\147\141\154\055\164\145\162
\155\163\060\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\105\156\16\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\14\145\040\165\163\145\040\157\156\154\171\161\162\060\060
\060\00\003\125\004\003\023\051\105\156\16\162\165\163\164\160\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\171\156\040\101\165\164\150\157\162\151\116\171\040\055\040\107
\1062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\112\123\14\050
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\076\060\020\003\046\240\003\002\001\100\02\002\004\112
\123\21\050\060\15\006\01\11\052\206\110\206\367\15\001\001\013
\005\00\00\02\123\26\060\020\060\003\125\004\006\023\002
\125\123\146\126\060\020\060\003\125\004\012\023\015\010\51\56\16\162\165\163\164\054\011\11\156\143\056\061\050\060\046\060\003
\125\004\103\123\037\123\145\145\040\167\167\167\056\145\156\16\162
\162\165\163\164\054\001\11\156\143\056\061\050\060\046\060\003
\125\004\013\023\037\123\145\145\040\167\167\167\056\145\156\16
\162\161\163\164\056\156\145\164\057\154\145\147\141\154\055\164\0164
\145\161\155\163\061\107\160\067\006\003\125\004\103\023\060\050
\143\051\040\062\060\060\071\040\105\156\16\162\165\163\164\054
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0x4a538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
CKA_CLASS CK_OBJECT_CLASS 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
\006\020\217\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\05\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\069\060\003\125\004\013\023\060\050\143\051
\040\062\060\060\071\040\0105\156\164\162\165\163\164\054\040\111
\% Certificate "Entrust Root Certification Authority - ECI"
#
# Issuer: CN=Entrust Root Certification Authority - ECI,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 - ECI,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):

CKA_CLASS CK_OBJECT_CLASS CKC_X_509

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "Entrust Root Certification Authority - ECI"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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
# 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):

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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

CKA_SERIAL_NUMBER MULTILINE_OCTAL

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

CKA_NSS_MOZILLA_CA_POLICY CBBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CBBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CBBOOL 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):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CBBOOL CK_TRUE
CKA_PRIVATE CBBOOL CK_FALSE
CKA_MODIFIABLE CBBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\160\060\126\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\140\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\031\061\031\01
\040\105\126\040\122\117\117\124
END

CKA_ISSUER_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
# Certificate "OISTE WISeKey Global Root GB CA"

# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# 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

CKA_CLASS CK_OBJECT_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

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# 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):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS 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\071\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\105\060\060\046\006\003\125\004\003\023\037
\117\011\032\123\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
# Certificate "SZAFIR ROOT CA2"

# Issuer: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# 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
CKA_CLASS CK_OBJECT_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\130\060\011\100\060\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\140\111\171\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\105\060\111\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\130\060\011\100\060\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\140\111\171\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\105\060\111\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\256\267\143\136\137\001
\353\055\334\344\326\244
END
CKA_VALUE MULTILINE_OCTAL
\060\020\003\162\060\202\002\132\240\003\002\001\002\002\024\076
\212\135\007\354\125\322\062\256\267\143\266\137\001\135\055\334
\344\244\060\011\052\206\110\026\367\15\011\001\013
\005\000\060\121\061\130\060\111\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\171\142\141\040\122\157\172\154\151\143\172\145\156
\151\157\167\141\040\123\056\101\105\060\111\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
# Trust for “SZAFIR ROOT CA2”

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

# Fingerprint (SHA1):

# Certificate "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# 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):
CKA_CLASS CK_OBJECT_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\120\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\013
\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\175\17\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\013
\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\175\17\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\020\005\322\206\020\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\020\110\206\367\015\001\001\015\005\000\060\021
\200\061\013\060\011\006\003\125\004\006\023\002\120\114\061\042
END

# Trust for "Certum Trusted Network CA 2"
# 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
CKA_CLASS CK_OBJECT_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\060\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\151\156\164\151
\164\165\164\151\157\156\163\040\103\145\156\164\165\056\100\165
\164\150\157\162\151\164\171\061\100\060\076\060\003\125\004\003
\023\067\110\145\154\154\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\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\060\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\151\156\164\151
\164\165\164\151\157\156\163\040\103\145\156\164\165\056\100\165
\164\150\157\162\151\164\171\061\100\060\076\060\003\125\004\003
\023\067\110\145\154\154\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\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\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\060\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\151\156\164\151
\164\165\164\151\157\156\163\040\103\145\156\164\165\056\100\165
\164\150\157\162\151\164\171\061\100\060\076\060\003\125\004\003
\023\067\110\145\154\154\156\151\143\040\101\143\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\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\022\003\363\240\003\002\001\100\002\001\000
\060\015\006\011\015\206\110\026\367\015\001\001\013\035\000\060
\201\246\061\103\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

Open Source Used In Crosswork Common EMS Services 4.0.0 8821
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

# 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):
CKA_CLASS CK_OBJECT_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\011\0252\061\013\060\001\11\006\000\03\125\004\006\023\002\107\122
\061\017\060\015\006\000\03\125\004\007\023\006\011\164\150\145\156
\163\061\104\060\012\066\000\03\125\004\012\023\073\101\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\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\020\1252\061\013\060\001\11\006\000\03\125\004\006\023\002\107\122
\061\017\060\015\006\000\03\125\004\007\023\006\011\164\150\145\156
\163\061\104\060\012\066\000\03\125\004\012\023\073\101\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\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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

# Certificate "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# 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):

CKA_CLASS CK_OBJECT_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\001\111\006\003\125\004\006\023\002\125\123\061
\051\060\047\000\003\125\004\012\023\040\111\011\015\016\014\015\016\015
\\145\164\040\123\145\143\165\162\151\016\014\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\001\111\006\003\125\004\006\023\002\125\123\061
\051\060\047\000\003\125\004\012\023\040\111\011\015\016\014\015\016\015
\145\164\040\123\145\143\165\162\151\016\014\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\020\020\031\027\026\032\022\010\034\031\131\010\043\134\027\013\143
\020\021\030
END

CKA_VALUE MULTILINE_OCTAL
\060\020\005\153\060\020\003\123\240\003\002\001\002\002\021\000
\020\020\031\027\026\032\022\010\034\031\131\010\043\134\027\013\143
\060\015\000\006\011\052\206\001\000\063\017\001\000\011\013\005\000\006
\117\061\013\060\001\006\003\125\004\006\023\002\125\123\061\051
\060\047\000\006\003\125\004\012\023\040\111\115\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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
# Certificate "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM, O=FNMT-RCM, C=ES
# Subject: OU=AC RAIZ FNMT-RCM, O=FNMT-RCM, C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030

CKA_CLASS CK_OBJECT_CLASS CKC_X_509
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

END
CKA_SUBJECT MULTILINE_OCTAL
\060\073\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\23\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\020\020\031\17\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

END
CKA_ISSUER MULTILINE_OCTAL
\006\017\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\23\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_ISSUER_MULTILINE_OCTAL
\006\017\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\23\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_TOKEN MULTILINE_OCTAL
\060\003\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\23\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"


\370\323\311\366\020\045\100\165\376\026\252\311\112\140\206\057
\272\357\060\167\344\124\342\270\204\231\130\200\252\023\213\121
\072\117\110\366\213\266\263
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\120\065\007\262\025\142\031\342\250\232\133\102\231
\054\114\054\040
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
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\016\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
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\066\310\006\035\032\307\124\204\151
\007
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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
# 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):
# Fingerprint (SHA1):
# CKA_CLASS CK_OBJECT_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\012\050\004\006\023\002\125\123\061
\017\060\015\006\003\012\050\004\012\023\006\010\115\141\172\157\156
\061\031\060\027\006\003\012\050\004\003\023\020\010\115\141\172\157
\156\040\122\157\157\164\040\013\101\040\061
END
# CKA_ID UTF8 "0"
# CKA_ISSUER_MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\012\050\004\006\023\002\125\123\061
\017\060\015\006\003\012\050\004\012\023\006\010\115\141\172\157\156
\061\031\060\027\006\003\012\050\004\003\023\020\010\115\141\172\157
\156\040\122\157\157\164\040\013\101\040\061
END
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\317\231\277\214\012\071\342\360\170\212\013
\346\226\066\133\312
END
# CKA_VALUE MULTILINE_OCTAL
\060\020\003\101\060\202\020\020\051\240\003\002\001\002\002\023\006
\154\237\317\231\277\214\012\071\342\360\170\212\013\346\226\066
\133\312\060\015\006\011\052\206\110\206\367\015\001\013\005
\000\060\071\061\013\060\011\006\003\012\050\004\006\023\002\125\123
\061\017\060\015\006\003\012\050\004\012\023\006\010\115\141\172\157
\156\061\013\060\027\006\003\012\050\004\003\023\020\010\115\141\172
\157\156\040\122\157\157\164\040\013\101\040\061\060\036\027\015
\061\016\053\060\065\062\060\060\060\060\060\060\060\060\060\132\027\015\063
\070\060\060\161\061\061\060\060\060\060\060\060\060\060\060\132\060\067\061\013
\060\011\006\003\012\050\004\006\023\002\125\123\061\017\060\015\006\015
\003\125\004\012\023\006\010\115\141\172\157\156\061\031\060\027
\006\060\013\125\004\003\023\020\101\115\141\172\157\156\040\122\157
\157\164\040\103\101\040\061\060\020\020\010\104\020\060\015\006\011\052
\206\110\206\367\015\001\010\105\000\003\020\001\010\170\000\060
\202\001\012\020\020\020\010\000\262\170\200\161\132\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
# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# 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):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In Crosswork Common EMS Services
# Version: 4.0.0
# Date: 8836
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

END

END

END
# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

# Certificate "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# 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):
# Fingerprint (SHA1):
CKA_CLASS  CK_OBJECT_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\010\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\015\4\237\325\164\227\066\146\077\073\013\232\331\350\236\166\003\362\112
END
CKA_VALUE  MULTILINE_OCTAL
\060\022\002\012\260\060\020\021\133\249\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\200\060\010\052\206\110\316\075\004\003\002\060\071\060\013\060\11\006\003\125\004\006\023\002\125\123\061\017\060\15\006\003\125\004\012\023\006\101\155\141\172\157\156\010\31\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\062\060\060\060\060\060\060\132\027\015\064\060\060\065\062\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\010\31\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\062\060\060\060\060\060\060\132\027\015\064\060\060\065\062\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\010\31\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\062\060\060\060\060\060\060\132\027\015\064\060\060\065\062\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\010\31\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\062\060\060\060\060\060\060\132\027\015\064\060\060\065\062\060\060\060\060\060\060\132\060\071\061\013\060\011\006
# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS 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\140\032\130\165\144\201\351\017\056\052\137\263\322\156
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\240\324\357\101\367\265\330\111\225\052\354\365\304\374\201\207
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\100\060\033\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\203\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\030\203\020\101\155\141\172\157
\156\040\122\157\157\164\040\03\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
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\147\230\014\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\013\060\011\100\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\013\101\040\006 END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\103\032\030\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 "LuxTrust Global Root 2"
# # Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# # Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# # Not Valid Before: Thu Mar 05 13:21:57 2015
# # Not Valid After : Mon Mar 05 13:21:57 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\106\013\060\011\100\003\125\004\006\023\002\114\125\061
\026\060\024\000\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\010\154\157\142\141
\154\040\122\157\157\164\040\062 END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\060\013\060\011\100\003\125\004\006\023\002\114\125\061
\026\060\024\000\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\037\060\035\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\010\154\157\142\141

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# Trust for "LuxTrust Global Root 2"
# Issuer: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Subject: CN=LuxTrust Global Root 2,O=LuxTrust S.A.,C=LU
# Not Valid Before: Thu Mar 05 13:21:57 2015
# Not Valid After: Mon Mar 05 13:21:57 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "LuxTrust Global Root 2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\036\016\126\031\012\321\213\045\230\262\004\104\377\146\212\004
\027\231\137\077

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\262\341\011\000\141\257\367\361\221\157\304\255\215\136\073\174
END

CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\114\125\061
\026\060\024\006\003\125\004\012\014\015\114\165\170\124\162\165
\163\164\040\123\056\101\056\061\013\060\003\006\003\125\004\003
\014\026\114\165\170\124\162\165\163\164\040\010\154\157\142\141
\154\040\122\157\157\164\040\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\012\176\246\337\113\104\236\132\152\044\120\236\134\6270
\025\232\026\177\273\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 "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
# 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):

CKA_CLASS CK_OBJECT_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\224\061\13\060\01\006\003\125\004\006\023\002\125\123
\061\035\006\003\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\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\013\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\013\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\224\061\13\060\01\006\003\125\004\006\023\002\125\123
\061\035\006\003\006\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\013\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\013\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\013\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\01\063\367\264\152\312\320
\363\230

END

CKA_VALUE_MULTILINE_OCTAL
\060\202\003\366\060\202\002\336\240\003\002\001\002\002\020\044
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# 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
# 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):

CKA_CLASS CK_OBJECT_CLASS 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"

UCKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\373\162\347\104\331\215\303
\134\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\103\060\011\060\003\125\004\006\023\002\125\123
\061\203\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

# 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
# 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):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_ID UTF8 "0"
# 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
# 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):
\060\060\013\220\027\015\063\070\060\061\061\070\062\063\065\071\065
\071\132\060\201\224\061\013\060\011\110\060\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\060\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\010\060\010\133\125\004\003\023\074\123\171\155
\141\156\164\145\143\040\103\154\141\143\163\160\061\103\120\165
\142\154\151\143\040\120\162\151\155\141\142\171\104\103\145\162
\164\151\146\151\143\141\164\151\157\157\160\040\101\165\164\150\157
\162\151\164\171\040\055\040\107\064\060\166\060\010\006\007\052
\206\110\316\075\002\001\006\005\053\201\004\000\042\003\142\000
\004\327\146\265\033\333\256\263\140\356\106\352\210\143\165\073
\052\224\155\163\137\072\226\343\017\236\266\010\124\123\110\122
\310\334\072\263\313\111\004\040\046\022\116\372\211\204\324\337\221
\344\051\175\050\001\331\333\030\103\151\124\103\276\323\206\026
\334\070\177\147\043\337\337\061\061\020\030\003\006\160\261\113\267
\310\027\273\121\133\34 \322\040\273\211\073\116\022\336\025
\265\243\102\060\100\060\160\060\031\250\035\017\001\001\377\004
\004\003\002\001\000\060\060\170\060\031\250\035\023\001\001\377\004
\005\060\003\001\001\377\060\035\060\003\125\035\016\004\060\004
\024\145\300\215\045\365\014\272\227\227\167\220\177\236\056\340\132
\365\163\325\341\344\060\120\060\101\055\206\110\136\075\004\003
\003\003\001\151\009\060\146\002\061\000\025\256\343\106\123\370\230
\066\343\042\372\205\050\111\105\336\060\176\063\363\354\077\161
\136\314\125\211\170\231\254\262\375\334\034\134\063\216\051\1271
\153\027\130\021\155\265\334\203\070\002\061\000\023\141\104\332
\151\032\066\031\124\031\102\020\050\023\322\235\107\357\101\347\154
\046\235\011\170\367\155\220\321\005\104\057\260\274\020\223\150
\362\014\105\111\071\277\231\004\034\323\020\240
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRESS_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRESS_AFTER CK_BBOOL CK_FALSE

# Trust for "Symantec Class 1 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G4,OU=Symantec Trust
Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
# Certificate "Symantec Class 2 Public Primary Certification Authority - G4"

# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G4"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\204\362\343\335\203\023\076\251\035\031\122\177\002\327\051\277
\301\137\346\147
END
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\004\345\200\077\125\377\131\207\244\062\322\025\245\345\252\346
END
# CKA_ISSUER MULTILINE_OCTAL
\061\035\060\033\066\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\23\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\013\006\033\125\004\030\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\104\010\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\005\55\040\107\064
END
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\156\063\245\313\323\210\244\157\051\007\264\047\074
\304\330
END
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

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CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\202\002\250\027\145\022\100\073\267\126\200\055\200\313\171\125\246\036
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\202\002\250\027\145\022\100\073\267\126\200\055\200\313\171\125\246\036
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\060\202\002\250\027\145\022\100\073\267\126\200\055\200\313\171\125\246\036
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\250\027\145\022\100\073\267\126\200\055\200\313\171\125\246\036
END
# Trust for "Symantec Class 2 Public Primary Certification Authority - G4"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G4,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Wed Oct 05 00:00:00 2011
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Symantec Class 2 Public Primary Certification Authority - G4"
# 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):
# Fingerprint (SHA1):
# CKA_CLASS CK_OBJECT_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
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
# 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"
END

| # 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

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# 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

CKA_CLASS CK_OBJECT_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\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254

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_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0

8866
Open Source Used In Crosswork Common EMS Services 4.0.0  8867

# 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):

CKA_CLASS CK_OBJECT_CLASS 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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
# 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

CKA_CLASS CK_OBJECT_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_SUBJECT MULTILINE_OCTAL
\060\014\012\006\011\003\003\012\004\006\006\002\003\002\010\013\116\061\n\062\060\060\006\003\012\050\004\012\014\051\107\125\011\116\107\040
\104\117\116\107\040\010\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\003\012\050\004\003\014\026\107\104
\103\014\004\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\012\006\011\103\006\003\012\050\004\006\023\002\010\013\116\061\n\062\060\060\006\003\012\050\004\012\014\051\107\125\011\116\107\040
\104\117\116\107\040\010\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
Open Source Used In Crosswork Common EMS Services 4.0.0 8871

\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):

CKA_CLASS CK_OBJECT_CLASS 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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\143\314\331\075\064\065\134\157\123\243\342\010\160\110\037\264

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\130\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\000\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\103\060\035\006\003\125\004\003\140\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124

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

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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"
Open Source Used In Crosswork Common EMS Services 4.0.0 8872

# 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):

CKA_CLASS CK_OBJECT_CLASS CK0_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\101\124\040\101\13\060\011\100\060\003\125\004\006\023\002\120\101
\061\17\060\015\000\060\003\125\004\010\140\006\120\141\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\161\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\06\147\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\040\101\13\060\011\100\060\003\125\004\006\023\002\120\101
\061\17\060\015\000\060\003\125\004\010\140\006\120\141\156\141\155
\141\061\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\161\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\06\147\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\332\233\354\161\363\031

END

CKA_VALUE MULTILINE_OCTAL
\017\006\003\125\035\023\001\001\377\004\005\060\000\003\001\001\377
\060\016\006\003\012\025\035\017\001\001\0377\004\004\003\002\001\026
\060\015\006\001\135\022\026\011\020\063\067\015\001\001\013\000\005\000\003
\202\020\001\000\000\045\030\032\024\221\217\023\356\021\070\036\035\021\0123
\332\055\104\051\031\124\003\061\236\115\016\236\255\075\134
\101\157\225\053\044\241\171\230\072\070\066\377\273\146\232\110
\377\220\220\357\075\324\270\233\264\207\165\077\040\233\316\162
\317\241\125\030\111\151\144\242\031\006\241\007\063\014\013\050\1345
\361\135\252\253\243\335\245\012\164\220\030\071\175\162\362\327\134\237
\221\135\221\121\236\73\334\355\146\242\317\216\146\073\274\237\072
\002\340\047\335\026\230\300\225\324\012\244\344\201\232\165\224
\065\234\220\137\210\067\006\255\131\225\012\260\321\147\323\031
\312\121\134\276\062\126\300\034\076\020\250\132\223\276\306\320\144
\221\266\317\331\266\030\031\173\333\176\322\145\243\246\304\216\027
\061\130\137\231\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\212\333\349\050\041\147\011\132\326\115\132\034\031\034\216\0167
\134\033\322\240\444\075\062\153\113\176\324\170\224\023\276\067\115
\131\137\307\036\116\074\340\211\063\225\013\017\245\062\326\074
\132\171\054\031
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.l.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de
R.l.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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"

END
# 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
CKA_CLASS CK_OBJECT_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\021\124\040\061\013\060\001\11\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\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\166\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\155\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
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\020\124\060\017\060\006\003\125\004\014\006\120\141\156\141\155
\141\061\024\060\022\060\003\125\004\007\140\131\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\101\043\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\124\162\165\163\164\103\157\162
\104\013\131\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\100\105\241\337\312\063\313\131\002
END
CKA_VALUE MULTILINE_OCTAL
\002\100\106\057\060\202\004\240\003\002\001\002\002\010\145
241\337\131\063\133\131\002\060\015\006\011\052\200\110\206\367
\015\000\101\130\050\000\060\201\124\061\103\060\011\006\003\125
\004\006\023\002\202\101\106\060\150\006\003\125\004\010\014
\100\120\141\156\141\114\140\103\151\164\171\061\104\406
\042\006\003\125\004\012\124\163\161\164\103\157\162
\104\012\131\171\163\164\145\155\163\040\123\056\040\144\145\040\122
\156\114\056\061\047\060\045\006\003\125\004\013\140\136\124\162
\165\163\164\103\157\162\040\103\145\162\164\151\146\151\143\141
\146\145\040\101\165\164\150\157\162\151\164\171\061\037\060\035
\106\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
\105\160\166\060\060\026\064\016\062\063\062\062\032\27\015
\106\304\061\062\063\061\061\067\062\066\063\071\132\060\021\44
\061\103\060\011\006\003\125\004\006\023\002\120\101\061\170\060
\105\150\033\125\004\010\140\146\120\114\156\141\155\141\162
\060\022\060\003\125\004\007\014\013\120\141\156\141\155\141
\103\151\164\171\061\044\060\042\006\003\125\004\012\140\133\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\140\136\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
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\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
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor RootCert CA-2"
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
CKA_CLASS CK_OBJECT_CLASS 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"
# 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 (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_CLASS_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT MULTILINE_OCTAL

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Open Source Used In Crosswork Common EMS Services 4.0.0 8879
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After: Mon Dec 31 17:28:07 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
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\006\360\133\034\027\115\213\204
\013\310\170\275
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\234\061\101\306\001\11\006\003\125\004\006\023\002\120\101
\061\17\060\15\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\002\22\006\003\125\004\007\014\013\120\141\156\141
\155\143\040\103\151\164\171\061\044\060\004\22\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\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\151\157\162\151\164\171\061\027\060\023\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\010\055\061
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\234\061\101\306\001\11\006\003\125\004\006\023\002\120\101
\061\17\060\15\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\002\22\006\003\125\004\007\014\013\120\141\156\141
\155\143\040\103\151\164\171\061\044\060\004\22\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\013\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\151\157\162\151\164\171\061\027\060\023\025\006\003\125\004\003\014
\016\124\162\165\163\164\103\157\162\040\105\010\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

#

Open Source Used In Crosswork Common EMS Services 4.0.0 8882
\125\035\016\004\026\004\024\335\004\011\007\242\365\172\175\112
\123\022\222\225\356\070\0200\045\015\246\131\060\017\000\003\125
\035\023\001\001\377\004\011\007\242\365\172\175\112
\125\035\043\004\030\060\026\200\024\335\004\011\007\242\365\172
\175\121\123\022\222\222\225\356\070\0200\045\015\246\131\060\016\006
\003\125\035\070\010\001\377\004\004\003\001\026\004\024\335\004
\011\052\206\110\206\367\015\011\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\131\060\017\006\003\125\035\017\001\001\377
\004\005\060\003\001\001\377\060\037\006\003\001\001\377
\017\023\036\027\371\100\133\221\371\125\231\257\036\021\320\134
\035\247\146\343\261\224\007\014\062\071\124\365\203\032\260\171\133
\035\234\160\104\343\312\333\304\371\225\037\120\070\103\077\001
\205\245\107\247\075\106\262\274\345\042\150\367\173\234\330\054
\076\012\041\131\055\063\254\277\305\011\231\061\164\301\165\161
\130\276\261\136\043\105\364\235\153\374\031\143\235\243\274\004
\306\030\013\045\273\123\211\017\263\200\012\306\105\356\104\177
\253\234\170\144\230\303\323\366\050\305\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\021\161\165\030\352\172\264\064
\162\230\043\047\167\134\262\200\352\206\045\100\253\357\063\017
\313\237\020\276\242\040\373\366\265\055\032\346\302\205\026\1164
\017\073\301\145\002\244\122\001\107\335\111\042\301\127\330\035
\153\252\176\336\354\143\063\025\267\040\031\207\306\101\215\101
\132\335\216\030\271\217\345\105\077\170\333\272\322\033\100\261
\376\161\115\077\340\201\124\272\136\264\354\025\340\022\335\010
\037\176\341\115\251\231\013\041\336\223\236\012\373\346\243\111\275
\060\060\047\347\167\262\240\165\227\265\055\201\120\027\145\040
\367\332\220\000\237\311\112\214\062\312\065\174\346\075\017\330
\053\327\265\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\032\271\303\331\156
\234\274\054\240\133\332\152\000\257\137\067\341\132\357\200\013
\230\234\206\347\046\217\316\360\354\155\212\127\013\120\034\331\116
\262\000\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\210\131\304\332\213\141\033\274\372\037\221\053\332\71\040\007
\1362\270\051\254\331\305\351\135\123\110\132\353\200\361\050\130
\041\315\260\006\125\357\047\077\123\220\160\251\004\036\127\047
\721
END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “SSL.com Root Certification Authority RSA”
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "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

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\206\151\022\300\160\361\135\254\254\320\252\274\245\133\241\051

CKA_ISSUER MULTILINE_OCTAL
\060\174\001\010\030\060\001\100\060\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\140\040
\103\157\162\160\157\162\141\164\151\157\156\061\060\057\006
\003\125\004\003\140\050\123\123\140\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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):

CKA_CLASS CK_OBJECT_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\133\060\011\000\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\001\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\140\071\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\133\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\001\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\140\071\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\022\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\103\060\011\006\003\125\004\006\023\002
\125\123\061\106\160\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\151\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_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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_CLASS CK_OBJECT_CLASS 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"
"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
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
Class CKO_CERTIFICATE
Token CK_TRUE
Private CK_FALSE
Modifiable CK_FALSE
Label UTF8 "SSL.com EV Root Certification Authority RSA R2"
Certificate_Type CK_CERTIFICATE_TYPE
Subject_MULTILINE_OCTAL
Issuer_MULTILINE_OCTAL
Serial_NUMBER_MULTILINE_OCTAL
Trust_Server_Auth CK_TRUE
Trust_Email_Protection CK_TRUE
Trust_Code_Signing CK_TRUE
Trust_Step_Up_Approved CK_FALSE
Open Source Used In Crosswork Common EMS Services 4.0.0  8892

# 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):

CKA_CLASS CK_OBJECT_CLASS CK0_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\120\061\103\060\011\006\003\125\004\006\023\002\125\123
\061\106\060\14\006\003\125\004\010\014\005\124\145\170\141\163
\061\020\060\106\060\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
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 After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_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\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\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\016\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\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\016\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

Open Source Used In Crosswork Common EMS Services 4.0.0 8893
# 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 After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_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
# 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

CKA_CLASS CK_OBJECT_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\160\123\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\160\123\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\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\150\006 \01\052\206\110\206\367\015\001\001\014\005\000\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\160\123\060\021\006\003\125 \004\003\023\012\107\154\157\142\141\154\123\151\147\156
END

Open Source Used In Crosswork Common EMS Services 4.0.0 8896
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# 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):
CKA_CLASS CK_OBJECT_CLASS 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\000\040\13\023\027\107\154\157
\142\115\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\000\040\12\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\033\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_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
# 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
CKA_CLASS CK_OBJECT_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\060\105\006\004\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
Open Source Used In Crosswork Common EMS Services 4.0.0

# Trust for "OISTE WISeKey Global Root GC CA"
# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "GTS Root R1"

# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# 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):

CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_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\103\060\011\100\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\103\060\011\100\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\020\156\107\251\130\51\113\107\014\015\35\063\32\021\127\034
\36\341

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\015
\107\251\130\51\113\107\014\015\35\063\32\021\127\034
\36\341

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\202\003\102\240\003\002\001\002\002\020\015
\107\251\130\51\113\107\014\015\35\063\32\021\127\034
\36\341

END

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# Certificate "GTS Root R2"

# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# 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):

CKA_CLASS CK_OBJECT_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
\341\311\120\346\357\042\370\114\126\105\162\213\222\040\140\327
\325\247\243\350

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\130\061\132\060\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\012\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\020\156\107\251\306\132\263\347\040\305\060\232\077\150\122
END
CKA_VALUE MULTILINE_OCTAL
\060\202\000\132\060\202\003\102\240\003\002\001\002\002\020\156
\107\251\130\061\132\263\347\040\305\060\232\077\150\122\362\157
\015\006\011\052\206\110\206\367\015\001\014\005\000\060\0107
\061\113\060\001\100\060\003\125\004\006\023\002\125\123\061\042\060
\040\006\003\011\25\004\012\023\031\107\157\147\154\145\040\124
\162\165\163\164\040\123\145\162\166\151\143\145\163\040\114\114
\103\061\024\060\022\006\003\125\004\003\023\013\107\124\123\040
\122\157\157\164\040\122\062\060\036\027\150\106\060\060\062
\062\060\060\060\060\060\012\027\015\063\060\060\060\060\062
\060\060\060\060\060\060\013\060\070\013\060\011\006\003\125
\002\000\020\023\012\125\004\020\006\003\125\004\012\023
\021\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\060
\125\004\003\023\013\107\124\123\040\122\157\157\164\040\122
\062\020\022\042\060\015\060\011\052\206\110\206\367\015\001
\001\005\000\003\032\020\021\17\000\060\020\020\012\002\020\020
\000\031\163\336\375\246\373\335\354\024\064\047\007\006\132\154\131
\367\031\065\335\367\301\123\125\252\323\315\073\244\223\162\357
\012\372\155\235\366\136\020\020\021\33\241\110\122\237\071\130\267
\356\050\254\357\313\166\150\024\271\33\257\255\001\154\231\037\304
\042\035\237\376\162\167\340\054\315\257\373\44\042\277\117\162\240
\032\064\230\350\071\150\354\225\045\173\166\241\346\151\271\205
\031\127\211\124\376\255\355\066\352\163\274\377\203\342\313\175
\301\322\316\112\263\215\005\023\362\131\112\233\337\301\133\320\156
\136\360\056\060\056\202\374\372\274\264\024\027\12\110\345\210\233
\305\233\135\336\260\312\264\003\360\332\364\222\207\145\144\367
\134\114\245\355\016\146\161\362\313\270\302\076\310\320\232\235
\255\356\344\105\173\211\125\367\212\307\142\122\204\022\263\302
\100\227\343\122\203\107\221\246\164\132\222\370\261\143\050\020
\270\263\011\270\126\167\100\242\046\230\171\306\373\337\045\356
\076\345\240\177\324\141\017\121\113\074\077\214\332\341\160\164
\330\020\150\241\371\030\101\143\124\134\272\273\125\074\166\006
\356\152\116\134\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\162\342\021\110
# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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"

# Certificate "GTS Root R3"
# Trust for “GTS Root R3”
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “GTS Root R3”
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "GTS Root R4"

# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# 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):

CKA_CLASS CK_OBJECT_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_SUBJECT MULTILINE_OCTAL
\060\010\077\051\013\060\001\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\010\077\051\013\060\001\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\020\156\107\251\131\021\132\224\266\350\273\073\052\330\242\262
\301\231
END

# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# 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):

CKA_CLASS CK_OBJECT_CLASS 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
\052\035\140\047\331\112\261\012\034\115\221\134\315\063\240\313
\076\055\124\313

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\135\266\152\304\140\027\044\152\032\231\250\113\356\136\264\046

END

CKA_ISSUER MULTILINE_OCTAL
\060\075\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\020\156\107\251\310\213\224\266\350\273\073\052\330\242\262
\301\231

END

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

# Certificate "UCA Global G2 Root"
#
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# 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):
CKA_CLASS CK_OBJECT_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\003\125\004\006\023\002\103\116\061
# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# 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):
CKA_CLASS CK_OBJECT_CLASS 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_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
END
CKA_ISSUER MULTILINE_OCTAL
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
END

# Certificate "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# 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
CKA_CLASS CK_OBJECT_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\001\110\006\003\125\004\006\023\002\103\116\061
\021\100\170\006\003\125\004\012\140\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\140\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\001\110\006\003\125\004\006\023\002\103\116\061
\021\100\170\006\003\125\004\012\140\010\125\156\151\124\162\165
\163\164\061\045\060\043\006\003\125\004\003\140\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\312\206\020\03\102\240\003\002\001\002\002\020\017
\322\053\217\365\144\310\063\236\117\064\130\146\043\160\140
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\017
\061\101\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\140\010\125\156\151\124\162\165\163\164
\061\045\060\043\006\003\125\004\003\140\034\125\103\101\040\105
\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151
\157\156\040\122\157\157\164\060\036\027\015\061\065\060\063\061
\063\060\060\060\060\060\060\060\060\060\060\060\060\060\060\060
\060\060\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061
\060\060\060\060\060\060\060\132\060\107\061\013\060\011\006\033\125
\004\006\023\002\010\311\061\012\060\017\060\003\125\004\012\014
\010\125\156\151\124\162\165\163\164\041\045\060\043\006\003\125
\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\141

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CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “UCA Extended Validation Root”
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
END
# Certificate "Certigna Root CA"

# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# 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):

CKA_CLASS CK_OBJECT_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

END
\244\057\050\105\334\172\240\220\210\206\135\363\073\347\377\051\065
\200\374\144\033\222\243\364\333\225\006\003\222\245\076\110\102\135\363\073\347\377\051\065
\311\76\205\036\066\161\350\006\003\225\376\336\217\110\034\132\324
\222\230\050\253\56\347\076\113\333\272\200\041\252\207\230\347\305\137\357
\175\247\042\367\001\330\115\371\211\132\200\016\232\005\131\244\236
\230\303\115\032\121\060\276\144\302\212\252\243\036\43\351\257\033\222
\051\133\42\010\260\044\231\074\215\046\230\266\133\267\313\161\267
\067\007\375\046\333\213\205\200\205\044\377\113\141\003\222\335\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\016\167\016\145\254\241
\215\146\122\151\176\113\151\014\307\036\067\047\203\245\214\307
\002\344\024\315\111\010\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

CA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# 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):
CA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CA_TOKEN CK_BBOOL CK_TRUE
CA_PRIVATE CK_BBOOL CK_FALSE
CA_MODIFIABLE CK_BBOOL CK_FALSE
CA_LABEL UTF8 "Certigna Root CA"
CA_CERT_SHA1_HASH MULTILINE_OCTAL
\055\015\122\024\237\\236\255\231\044\001\164\040\010\71\156\154\205
\047\047\365\103
END
CA_CERT_MD5_HASH MULTILINE_OCTAL
\016\134\060\142\047\353\133\274\327\256\142\272\351\325\337\167
END
CA_ISSUER MULTILINE_OCTAL
\060\132\061\101\306\003\112\500\004\006\023\002\106\122\061
\022\060\020\000\003\125\004\012\149\011\110\150\151\155\171\157
\164\151\163\061\034\060\032\020\066\031\250\004\013\014\023\060\060
\060\061\131\060\027\106\014\020\010\003\023\151\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\1341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_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:e2:0c: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):
CKA_CLASS CK_OBJECT_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\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\012\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\141\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\060\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\012\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\141\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
### Trust for "emSign Root CA - G1"

# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS 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
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_CERTCHAIN MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA�数 Used In Crosswork Common EMS Services 4.0.0 8926
# 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

CKA_CLASS CK_OBJECT_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_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\015\053\061\013\053\060\011\010\006\003\125\004\006\023\002\011\011\016\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\151\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

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330

END

CKA_VALUE MULTILINE_OCTAL
# 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

END

CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE

CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_NSS_EMAIL_DISTRUST_AFTER 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:bac:4: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):

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "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\060\013\060\011\006\003\125\004\006\023\002\111\111\116\061
\023\060\021\000\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\110\045\060\043\006\003\125\004\012\023\034\145
\115\151\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\141\151\155\151\164\145\144\061\040\060\036\066
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\104\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
# 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):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
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\010\136\001\110\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\1024\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
# 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
CKA_CLASS CK_OBJECT_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\001\100\060\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\1024\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
Open Source Used In Crosswork Common EMS Services 4.0.0

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

# Certificate "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After: Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

**CKA_CLASS** CK_OBJECT_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\000\004\006\023\002\110\113\061
\022\060\020\000\003\125\004\010\023\001\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\001\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\146\061
\040\006\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\146\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\000\003\125\004\010\023\001\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\001\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\146\061
\040\006\036\006\003\125\004\003\023\027\110\157\156\147\153\157
\156\147\040\120\157\163\146\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\031\122\100\033\70\040\027\003\014\132\244
END

**CKA_VALUE** MULTILINE_OCTAL
\060\202\020\005\017\060\020\003\267\240\003\002\001\002\002\024\010
\026\137\212\114\245\354\000\031\122\100\033\70\040\027\003\014\132\244
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Serial Number:08:16:5f:8a:4c:00:00:e9:93:40:df:4c:6a:ae:23:b8:1c:5a:a4
# Subject: CN=Hongkong Post Root CA 3,O=Hong Kong 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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_CLASS CK_OBJECT_CLASS 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\000\022\212\375\077\363\130\271\131\040\360
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\050\101\130\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\002\006\003\125\004\010\233\011\110\157\156\147\040\113
\157\156\147\061\222\060\020\006\003\125\004\007\233\011\110\157
\156\147\040\113\157\156\147\061\226\060\024\006\003\125\004\012
\203\155\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:afa9:39:0f: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):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# 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):
CKA_CLASS CK_OBJECT_CLASS 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
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\1\214\161\107\116\037\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\276\061\101\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\122\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\167\056\145\156\164\162\165
\163\164\056\156\145\146\145\145\147\141\154\145\145\145\145\145
\155\163\060\107\060\067\006\003\125\004\013\023\060\050\014\3\051
\040\00\062\060\061\165\056\040\105\156\164\162\165\163\164\164\164\111
\156\143\056\040\055\040\00\146\157\162\040\141\165\164\150\157\162
\151\171\145\144\040\165\163\145\145\015\156\154\171\156\016\062\060
\060\00\060\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
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* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/control/PagedResultsDirContextProcessor.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/CannotProceedException.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/NotContextException.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/core/simple/ParameterizedContextMapper.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/core/simple/ContextMapperCallbackHandlerWithControls.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/transaction/compensating/support/DefaultTempEntryRenamingStrategy.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/transaction/compensating/UnbindOperationRecorder.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/LimitExceededException.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/pool/factory/DirContextPoolableObjectFactory.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-jar/org/springframework/ldap/core/support/SimpleDirContextAuthenticationStrategy.java
jar/org/springframework/ldap/core/support/BaseLdapPathContextSource.java
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jar/org/springframework/ldap/transaction/compensating/manager/ContextSourceAndHibernateTransactionManager.j
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* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
jar/org/springframework/ldap/transaction/compensating/manager/ContextSourceTransactionManagemen
delegate.java
* /opt/ws_local/PERMITS_SQL/1068919565_1594470340.64/0/spring-ldap-1-3-1-release-sources-1-
jar/org/springframework/ldap/transaction/compensating/manager/DirContextHolder.java

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*/opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3-0-5-release-sources-1-jar/org/springframework/security/cas/authentication/CasAuthenticationProvider.java
*/opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3-0-5-release-sources-1-jar/org/springframework/security/cas/authentication/CasAuthenticationEntryPoint.java
*/opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3-0-5-release-sources-1-jar/org/springframework/security/cas/authentication/EhCacheBasedTicketCache.java
*/opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3-0-5-release-sources-1-jar/org/springframework/security/cas/SamlServiceProperties.java
*/opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3-0-5-release-sources-1-jar/org/springframework/security/cas/authentication/NullStatelessTicketCache.java
*/opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3-0-5-release-sources-1-jar/org/springframework/security/cas/authentication/CasAssertionAuthenticationToken.java
*/opt/cola/permits/1097911576_1602208760.31/0/spring-security-cas-client-3-0-5-release-sources-1-jar/org/springframework/security/cas/authentication/Car*
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   jar/org/springframework/security/cas/authentication/StatelessTicketCache.java

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jar/org/codehaus/commons/nullanalysis/Nullable.java
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jar/org/codehaus/commons/nullanalysis/NotNullByDefault.java

1.782 cachecontrol 0.12.10

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Metadata-Version: 2.1
Name: CacheControl
Version: 0.12.10
Summary: httplib2 caching for requests
Home-page: https://github.com/IONrock/cachecontrol
Author: Eric Larson
Author-email: eric@ionrock.org
License: UNKNOWN
Description: ..

SPDX-FileCopyrightText: 2015 Eric Larson

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==============

CacheControl
CacheControl is a port of the caching algorithms in httplib2_ for use with requests_ session object.

It was written because httplib2's better support for caching is often mitigated by its lack of thread safety. The same is true of requests in terms of caching.

Quickstart
==========

.. code-block:: python

    import requests

    from cachecontrol import CacheControl

    sess = requests.session()
    cached_sess = CacheControl(sess)

    response = cached_sess.get('http://google.com')

If the URL contains any caching based headers, it will cache the result in a simple dictionary.

For more info, check out the docs_

.. _docs: http://cachecontrol.readthedocs.org/en/latest/

.. _httplib2: https://github.com/httplib2/httplib2

.. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web Environment
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3.6
1.783 curl 7.69.1-r3
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* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/mvc/PortletWrappingController.java
* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/DispatcherPortlet.java
* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/handler/SimplePortletPostProcessor.java

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* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/mvc/annotation/AnnotationMethodHandlerAdapter.java
* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/mvc/annotation/DefaultAnnotationHandlerMapping.java

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* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/bind/PortletRequestDataBinder.java
* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/ModelAndViewDefiningException.java
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* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/context/PortletConfigAware.java
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* /opt/cola/permits/1138130448_1614265386.04/0/spring-webmvc-portlet-4-3-29-release-sources-1.jar/org/springframework/web/portlet/context/PortletContextPropertySource.java

1.785 spring-framework 5.3.18
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/SortedIterables.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

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jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingLock.java

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 * the License.
 */

/**
 * 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.
*/

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
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jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/AbstractStreamingHasher.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableSetMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.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
 */

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ObjectArrays.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableMultiset.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/EvictingQueue.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/EvictingQueue.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/TransformedIterator.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ImmutableEnumMap.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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* 
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/ForwardingListIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/AbstractMapBasedMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collection/Synchronized.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/Iterables.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/Lists.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/base/Ascii.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/ForwardingMapEntry.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/ByteSource.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/CharSink.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/IndexedImmutableSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/BaseImmutableMultimap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/escape/CharEscaperBuilder.java


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  jar/com/google/common/eventbus/SubscriberRegistry.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/eventbus/Dispatcher.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/base/MoreObjects.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/eventbus/Subscriber.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/base/Quantiles.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
 * /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/util/concurrent/ListenerCallQueue.java

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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.
*/

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jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/net/InetAddressess.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/Ints.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>
*/

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jar/com/google/common/collection/ImmutableMapEntry.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/JdkPattern.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/EndpointPair.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardNetwork.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardMutableGraph.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ArraylistMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ForwardingValueGraph.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/GraphBuilder.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/Java8Compatibility.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/LineReader.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/eventbus/DeadEvent.java
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  jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/hash/LittleEndianByteArray.java
1.793 netty-handler 4.1.48.Final

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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
  * /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/SslUtils.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/OpenSslClientContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/ssl/ThreadLocalInsecureRandom.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/SniHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JdkSslContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/IpFilterRule.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/jutil/OpenJdkSelfSignedCertGenerator.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/OpenSslContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/jutil/BouncyCastleSelfSignedCertGenerator.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/sslContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/InsecureTrustManagerFactory.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources.jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources.jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources.jar/io/netty/handler/ssl/OpenSsljavaxX509Certificate.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources.jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources.jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources.jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java

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syndicate/netty-handler/src/netty-handler/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/address/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/traffic/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/src/netty-handler/handler/traffic/TrustManagerFactoryWrapper.java

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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
syndicate/netty-handler/traffic/package-info.java
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jar/io/netty/handler/logging/ByteBufFormat.java
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  jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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  jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
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  jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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  jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
  jar/io/netty/handler/sutil/X509TrustManagerWrapper.java
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  jar/io/netty/handler/sutil/PemX509Certificate.java
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  jar/io/netty/handler/ssl/PemX509CertificateException.java
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  jar/io/netty/handler/ssl/PemEncoded.java
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4.1.48-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4.1.48-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4.1.48-final-sources-jar/io/netty/handler/stream/ChunkedOutput.java
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/ssl//NotSslRecordException.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java

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* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/Java9SslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1258896271_1643117819.52/0/netty-handler-4-1-48-final-sources-jar/io/netty/handler/ssl/Java9SslUtils.java
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1.794 management-core-resources 2.1.6

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1.795 simpleclient_servlet_common 0.12.0

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Manifest-Version: 1.0
Bnd-LastModified: 1630271589604
Build-Jdk: 11.0.12
Built-By: fabian
Bundle-Description: HTTP servlet exporter for the simpleclient.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Prometheus Java Simpleclient Servlet - Common
Bundle-SymbolicName: io.prometheus.simpleclient_servlet_common
Bundle-Version: 0.12.0
Created-By: Apache Maven Bundle Plugin
Export-Package: io.prometheus.client.servlet.common.filter;uses:="io.prometheus.client.servlet.common.adapter";version="0.12.0",io.prometheus.client.servlet.common.adapter;version="0.12.0",io.prometheus.client.servlet.common.exporter;uses:="io.prometheus.client,io.prometheus.client.servlet.common.adapter";version="0.12.0"
Import-Package: io.prometheus.client;version="[0.12,1)",io.prometheus.client.exporter.common;version="[0.12,1)"

Tool: Bnd-2.1.0.20130426-122213

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1.796 netty-codec-dns 4.1.75.Final

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* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-jar/io/netty/handler/codec/dns/TcpDnsResponseEncoder.java
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* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsResponse.java
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  jar/io/netty/handler/codec/dns/AbstractDnsMessage.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
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* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsRecordType.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsMessage.java
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  jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/cola/permits/1302049225_1649313716.08/0/netty-codec-dns-4-1-75-final-sources-1-
  jar/io/netty/handler/codec/dns/DnsRecordDecoder.java
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The KStem stemmer in
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    contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
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The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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1.802 urllib3 1.26.7

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1.803 urllib3 1.25.9

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers
* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIbZDhBFxQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in test suite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)
* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.
* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urlib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
* Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
* Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
* Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
* Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
* Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
* Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
* Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
* Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
* Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
* Test improvements

* Chris Olufson <stycarac@gmail.com>
* Fix for connection not being released on HTTP redirect and response not preloaded

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]

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1.805 error_prone_annotations 2.10.0

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* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources.jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources.jar/com/google/errorprone/annotations/concurrent/LazyInit.java
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* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1248377789_1640376178.61/0/error-prone-annotations-2-10-0-sources-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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1.806 spring-framework 3.0.5.RELEASE
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jar/org/springframework/util/comparator/ComparableComparator.java
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1.807 jackson-databind 2.13.2.2

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# Jackson JSON processor

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

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1.808 slf4j-log4j 1.7.25
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1.809 jul-to-slf4j 1.7.25

1.810 mapstruct 1.3.1.Final

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1.811 cas-client-core 3.1.10

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of old output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.813 hikaricp 4.0.3

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4.0-3-sources-jar/com/zaxxer/hikari/util/IsolationLevel.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyPreparedStatement.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/PooledListAdapter.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java
* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/pool/ProxyStatement.java

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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTrackerFactory.java
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* /opt/cola/permits/1257217757_1642790274.61/0/hikaricp-4-0-3-sources-jar/com/zaxxer/hikari/util/ClockSource.java
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1.814 spring-js 2.0.8.RELEASE

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* /opt/cola/permits/1138132066_1614265365.7/0/spring-js-2-0-8-release-sources-2-jar/org/springframework/js/ajax/AjaxUrlBasedViewResolver.java
* /opt/cola/permits/1138132066_1614265365.7/0/spring-js-2-0-8-release-sources-2-jar/org/springframework/js/ajax/tiles2/AjaxTilesView.java
* /opt/cola/permits/1138132066_1614265365.7/0/spring-js-2-0-8-release-sources-2-jar/org/springframework/js/ajax/AjaxHandler.java

1.815 commons-dbcp 1.2.2.osgi

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* /opt/cola/permits/1006521779_1602614316.44/0/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/SharedPoolDataSource.java

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* /opt/cola/permits/1006521779_1602614316.44/0/com-springsource-org-apache-commons-dbcp-1-2-2-osgi-sources-jar/org/apache/commons/dbcp/datasources/InstanceKeyObjectFactory.java
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1.816 py3-ordered-set 4.0.1-r0

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1.817 nghttp2 1.41.0-r0

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1.818 py3-contextlib 0.6.0-r0

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

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

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

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*
1.829 disruptor 3.3.6

1.830 boringssl 2.0.30.Final
1.830.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/CertificateVerifierTask.java
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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
  jar/io/netty/internal/tcnative/SniHostNameMatcher.java
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;
  version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

Found in path(s):
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/META-INF/MANIFEST.MF
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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-jar/io/netty/internal/tcnative/SSLContext.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/SSL.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/Buffer.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/Library.java
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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/CertificateVerifier.java
* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/CertificateRequestedCallback.java
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* /opt/cola/permits/1114588304_1607570386.61/0/netty-tcnative-boringssl-static-2-0-30-final-sources-
jar/io/netty/internal/tcnative/CertificateCallback.java

1.831 google-collections-tc 1.0.1
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/scopedpool/ScopedClassPool.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/tools/reflect/CannotCreateException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/EnclosingMethodAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/util/proxy/SecurityActions.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/ClassMap.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/ast/FieldDecl.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/ClassFilePrinter.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/ast/Stmnt.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/tools/framedump.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/stackmap/MapMaker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/JvstTypeChecker.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/convert/TransformReadField.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/Loader.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/StackMapTable.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/tools/web/Webserver.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/LongVector.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/bytecode/DeprecatedAttribute.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1.jar/javassist/compiler/NoFieldException.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/EnumMemberValue.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ArrayMemberValue.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/bytecode/annotation/DoubleMemberValue.java

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man/bitstring.3bsd
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/config/AdviceEntry.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/InstantiationModelAwarePointcutAdvisor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/AopInvocationException.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
jar/org/springframework/aop/TrueClassFilter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/aspectj/AspectJMethodBeforeAdvice.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/aspectj/AspectJPrecedenceInformation.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/ExpressionPointcut.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/PointcutEntry.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
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  jar/org/springframework/aop/config/AdvisorComponentDefinition.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/support/NameMatchMethodPointcut.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/framework/ProxyCreatorSupport.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
  jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
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  jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/apt/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJProxyUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/AdvisorChainFactory.java
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  * /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/aop/support/StaticMethodMatcher.java
  * /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
  * /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java
  * /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/aop/MethodBeforeAdvice.java
  * /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/aop/support/RootClassFilter.java
  * /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/aop/target/PoolingConfig.java
  * /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java

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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/framework/Advised.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/framework/Target/LazyInitTargetSource.java
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/framework/adapter/AfterReturningAdviceAdapter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/framework/adapter/AfterThrowingAdviceAdapter.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1.jar/org/springframework/aop/framework/AopInfrastructureBean.java
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/config/AopConfigUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/config/AopNamespaceUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/ProxyConfig.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/AdvisedSupport.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/target/HotSwappableTargetSource.java
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/Scope/ScopedProxyUtils.java
* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/framework/Cglib2AopProxy.java
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* /opt/cola/permits/1136702296_1613865146.2/0/spring-aop-3-0-5-release-sources-1-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
1.837 simpleclient_tracer_otel 0.12.0

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1.838 activemq-stomp 5.15.9

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* /opt/cola/permits/1313350738_1650565875.39/0/netty-transport-udt-4-1-75-final-sources-2-
  jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java
* /opt/cola/permits/1313350738_1650565875.39/0/netty-transport-udt-4-1-75-final-sources-2-
  jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java
* /opt/cola/permits/1313350738_1650565875.39/0/netty-transport-udt-4-1-75-final-sources-2-
  jar/io/netty/channel/udt/UdtChannel.java
* /opt/cola/permits/1313350738_1650565875.39/0/netty-transport-udt-4-1-75-final-sources-2-
  jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/cola/permits/1313350738_1650565875.39/0/netty-transport-udt-4-1-75-final-sources-2-
  jar/io/netty/channel/udt/nio/NioUdtProvider.java
* /opt/cola/permits/1313350738_1650565875.39/0/netty-transport-udt-4-1-75-final-sources-2-
  jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java
* /opt/cola/permits/1313350738_1650565875.39/0/netty-transport-udt-4-1-75-final-sources-2-
  jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java

1.856 grpc-protobuf 1.9.0

1.857 jackson-datatype-joda 2.11.0
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1.860 spring-security-openid 5.6.2
1.860.1 Available under license :
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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, https://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation, javax.xml.namespace, javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Require-Capability: osgi.ee:filter:="(&amp;osgi.ee=JavaSE)(version=1.7)"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.stream,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.logging;version="3.0.5",com.sun.istack.localization;version="3.0.5"
Bundle-Name: istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

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**1.863 spring-jdbc 3.0.5.RELEASE**

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  */
/*

* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/```
The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
- Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

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/*
/**
 * {[@link LobHandler] implementation for Oracle databases. Uses proprietary API
 * to create <code>oracle.sql.BLOB</code> and <code>oracle.sql.CLOB</code>
 * instances, as necessary when working with Oracle's JDBC driver.
 * Note that this LobHandler requires Oracle JDBC driver 9i or higher!
 *
 * While most databases are able to work with {[@link DefaultLobHandler],
 * Oracle just accepts Blob/Clob instances created via its own proprietary
 * BLOB/CLOB API, and additionally doesn't accept large streams for
 * PreparedStatement's corresponding setter methods. Therefore, you need
 * to use a strategy like this LobHandler implementation.
 *
 * Needs to work on a native JDBC Connection, to be able to cast it to
 * <code>oracle.jdbc.OracleConnection</code>. If you pass in Connections from a
 * connection pool (the usual case in a J2EE environment), you need to set an
 * appropriate {[@link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor]}
 * to allow for automatical retrieval of the underlying native JDBC Connection.
 * LobHandler and NativeJdbcExtractor are separate concerns, therefore they
 * are represented by separate strategy interfaces.
 *
 * Coded via reflection to avoid dependencies on Oracle classes.
 * Even reads in Oracle constants via reflection because of different Oracle
 * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
 * As this LobHandler initializes Oracle classes on instantiation, do not define
 * this as eager-initializing singleton if you do not want to depend on the Oracle
 * JAR being in the class path: use "lazy-init=true" to avoid this issue.
 *
 * @author Juergen Hoeller
 * @author Thomas Risberg
 * @since 04.12.2003
 * @see #setNativeJdbcExtractor
 * @see oracle.sql.BLOB
 * @see oracle.sql.CLOB
 */

Found in path(s):
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/support/lob/OracleLobHandler.java
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  jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/SqlProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/PreparedStatementCreator.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
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  jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java

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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/support/lob/SpringLobCreatorSynchronization.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
  jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
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 */

/**
 * Abstraction for handling large binary fields and large text fields in
 * specific databases, no matter if represented as simple types or Large OBjects.
 * Its main purpose is to isolate Oracle's peculiar handling of LOBs in
 * [ @link OracleLobHandler ]; most other databases should be able to work
 * with the provided [ @link DefaultLobHandler ].
 *
 * <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
 * LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
 * LobCreators are typically instantiated for each statement execution or for
 * each transaction; they are not thread-safe because they might track
 * allocated database resources in order to free them after execution.
 *
 * <p>Most databases/drivers should be able to work with [ @link DefaultLobHandler ],
 * which by default delegates to JDBC's direct accessor methods, avoiding the
 * <code>java.sql.Blob</code> and <code>java.sql.Clob</code> API completely.
* [@link DefaultLobHandler] can also be configured to access LOBs using
* `<code>PreparedStatement.setBlob/setClob</code>` (e.g. for PostgreSQL), through
* setting the [@link DefaultLobHandler#setWrapAsLob "wrapAsLob"] property.
* 
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
* PreparedStatement's corresponding setter methods. Therefore, you need to use
* [@link OracleLobHandler] there, which uses Oracle's BLOB/CLOB API for both types
* of access. The Oracle 10g JDBC driver should basically work with
* [@link DefaultLobHandler] as well, with some limitations in terms of LOB sizes.
* 
* <p>Of course, you need to declare different field types for each database.
* In Oracle, any binary content needs to go into a BLOB, and all character content
* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a
* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete
* portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).
* 
* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>
* <ul>
* <li><b>JDBC 4.0 driver:</b> [@link DefaultLobHandler] with `<code>streamAsLob=true</code>`.
* <li><b>PostgreSQL:</b> [@link DefaultLobHandler] with `<code>wrapAsLob=true</code>`.
* <li><b>Oracle 9i/10g:</b> [@link OracleLobHandler] with a connection-pool-specific
*   [@link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor].
* <li>For all other database drivers (and for non-LOB fields that might potentially
*   turn into LOBs on some databases): a plain [@link DefaultLobHandler].
* </ul>
* 
* @author Juergen Hoeller
* @since 23.12.2003
* @see DefaultLobHandler
* @see OracleLobHandler
* @see java.sql.ResultSet#getBlob
* @see java.sql.ResultSet#getClob
* @see java.sql.ResultSet#getBytes
* @see java.sql.ResultSet#getBinaryStream
* @see java.sql.ResultSet#getString
* @see java.sql.ResultSet#getAsciiStream
* @see java.sql.ResultSet#getCharacterStream
*/

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jar/org/springframework/jdbc/support/lob/LobHandler.java
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* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/Db2CallMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/SingleConnectionDataSource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/usercredentials/DefaultLobHandler.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/stream/SqlRowSet.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/datasource/IsolationLevelDataSources.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/datasource/lookup/DefaultRoutingDataSource.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/datasource/lookup/DefaultRoutingDataSource.java
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  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/ColumnMapRowMapper.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/org/springframework/jdbc/datasource/EmbeddedDatabaseConfigurer.java
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  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/jdbc/core/simple/JdbcTemplate.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/jdbc/config/JdbcTemplate.java
  */opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-jar/jdbc/core/simple/SimpleJdbcTemplate.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never <code>null</code>)
*/

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  jar/org/springframework/jdbc/core/ParameterMapper.java

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jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /opt/cola/permits/1138130365_1614265858.29/0/spring-jdbc-3-0-5-release-sources-1-
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jar/org/springframework/jdbc/core/SqInOutParameter.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources.jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
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/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
*
* Implementations can be generic (for example, using
* {link java.sql.SQLException#getSQLState() SQLState} codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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  jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-
  jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java

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**
*/

/*
* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
* Will not need to do anything if using PreparedStatement's standard methods,
* but might be necessary to free database resources if using proprietary means.
* <p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
* been executed or the affected O/R mapping sessions have been flushed.
* Otherwise, the database resources for the temporary BLOBs might stay allocated.
*/

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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/WebSphereDataSourceAdapter.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/AbstractDataSource.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/object/MappingSqlQuery.java
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jar/org/springframework/jdbc/datasource/ConnectionProxy.java
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jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
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jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
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jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java

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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </ul>
 * This package and related packages are discussed in Chapter 9 of
 * by Rod Johnson (Wrox, 2002).
 */

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* /opt/cola/permits/1298106483_1648763973_4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con a JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @return a Map of input parameters, keyed by name (never { @code null})
* @throws SQLException if an SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
*/

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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java

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* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/support/MetaDataAccessException.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
* /opt/cola/permits/1298106483_1648763973.4/0/spring-jdbc-5-3-18-sources-jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java

1.866 glibc 2.31-r0

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jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/graph/EdgesConnecting.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
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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/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
* jar/com/google/common/util/concurrent/Partially.java
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* limitations under the License.
*/
/**
* 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
*/

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Found in path(s):
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/MutableNetwork.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:
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/*

Found in path(s):
* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5-jar/com/google/common/base/SmallCharMatcher.java
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*/
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  jar/com/google/common/util/concurrent/Internal.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/primitives/Platform.java

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  jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/primitives/package-info.java
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  jar/com/google/common/primitives/package-info.java
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ListeningExecutorService.java  
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/Ascii.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>
 */

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collection/ImmutableSortedMultisetFakeVersionShim.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collection/SortedIterables.java
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jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ForwardingMapEntry.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/LinkedHashMultimap.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collection/ForwardingSortedSet.java
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  jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/collection/AbstractMultimap.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/ForwardingCache.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeParameter.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/TreeBasedTable.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractBaseGraph.java

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The packages:

com.hazelcast.internal.util.collection
com.hazelcast.internal.util.concurrent

and the classes:

com.hazelcast.internal.util.QuickMath
com.hazelcast.client.impl.protocol.util.UnsafeBuffer
com.hazelcast.client.impl.protocol.util.BufferBuilder

contain code originating from the Agrona project
(https://github.com/real-logic/Agrona).


The class classloading.ThreadLocalLeakTestUtils contains code originating from the Tomcat project (https://github.com/apache/tomcat).

com.hazelcast.internal.cluster.fd.PhiAccrualFailureDetector contains code originating from the Akka project (https://github.com/akka/akka/).

The package com.hazelcast.internal.json contains code originating from minimal-json project (https://github.com/ralfstx/minimal-json).


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 */opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
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* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1349040975_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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1.882 nss 3.57-r0

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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/TransactionException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
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  jar/org/springframework/jca/cc/core/ConnectionCallback.java
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  jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
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  jar/org/springframework/jca/cc/core/CciTemplate.java
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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java
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  */opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/support/LocalConnectionFactoryFactoryBean.java
  */opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/support/TransactionOperations.java
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  */opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/transaction/support/TransactionIsolation.java
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  */opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/jta/ResourceAdapterSynchronization.java
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* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1136700823_1613865181.14/0/spring-tx-3-0-5-release-sources-2-jar/org/springframework/jca/cci/TransactionSavepointManager.java
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1.894 py3-pep 0.8.2-r0

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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
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 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODOl(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ObjectArrays.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:
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/CollectSpliterators.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractSortedMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/RegularContiguousSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Enums.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/EmptyContiguousSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/TreeRangeSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Present.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMapKeySet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Serialization.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/RegularImmutableBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableCollection.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMapValues.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/CollectPreconditions.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/StandardTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/Table.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/ImmutableListMultimap.java
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jar/com/google/common/collection/RegularImmutableMap.java
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jar/com/google/common/collection/ImmutableMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/Range.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/HashBasedTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collection/ImmutableSortedSet.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/base/NullnessCasts.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources.jar/com/google/common/primitives/ImmutableIntArray.java

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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
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jar/com/google/common/reflect/Reflection.java
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jar/com/google/common/base/AbstractIterator.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/UncaughtException.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TransformFuture.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCachingSpecialization.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
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jar/com/google/common/collection/ImmutableSortedAsList.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 {@link 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):
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jar/com/google/common/collect/ImmutableSortedMapFauxoverrideShim.java
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 */

/**
 * Holder for web specializations of methods of [ @code Ints]. Intended to be empty for regular
 * version.
 */

Found in path(s):
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/ForwardingList.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/LinkedListMultimap.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/Striped64.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/reflect/Parameter.java
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jar/com/google/common/collect/CartesianList.java
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jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
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jar/com/google/common/reflect/ImmutaBLETypeToInstanceMap.java
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jar/com/google/common/math/PairedStats.java
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jar/com/google/common/reflect/TypeCapture.java
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jar/com/google/common/xml/package-info.java
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jar/com/google/common/util/concurrent/SmoothRateLimiter.java
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jar/com/google/common/escape/package-info.java
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jar/com/google/common/collect/FilteredKeyMultimap.java
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jar/com/google/common/reflect/TypeToInstanceMap.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SortedMapDifference.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/Java8Compatibility.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java
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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.
 */

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/eventbus/SubscriberRegistry.java

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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/MoreFiles.java
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 * /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/CompactHashing.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/TableCollectors.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/ImmutableAsList.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
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* /opt/cola/permits/1292116189_1647933632.95/0/guava-31-1-jre-sources-jar/com/google/common/collect/Count.java
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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1.908 py3-appdirs 1.4.4-r1

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A. HISTORY OF THE SOFTWARE

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

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

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

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distlib has started off using some of the code from distutil2.

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  jar/org/springframework/web/multipart/MultipartRequest.java
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  jar/org/springframework/web/context/request/RequestContextHolder.java
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  jar/org/springframework/web/multipart/commons/CommonsFileUploadSupport.java
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1.928 snake-yaml 2.3
1.928.1 Available under license:
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Manifest-Version: 1.0
Automatic-Module-Name: org.snakeyaml.engine.v2
Bnd-LastModified: 1618842641913
Build-Jdk: 11.0.10
Built-By: somov
Bundle-Description: Core YAML 1.2 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML Engine
Bundle-SymbolicName: org.snakeyaml.engine
Bundle-Version: 2.3.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.snakeyaml.engine.v2.api;version="2.3",org.snakeyaml.engine.v2.api.lowlevel;version="2.3",org.snakeyaml.engine.v2.common;version="2.3",org.snakeyaml.engine.v2.constructor;version="2.3",org.snakeyaml.engine.v2.emitter;version="2.3",org.snakeyaml.engine.v2.event

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

Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1291285488_1660068950.2278726/0/snakeyaml-engine-2-3-jar/META-INF/MANIFEST.MF
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1.929 py3-setuptools 52.0.0-r4

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* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/SingletonDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/NoopDnsQueryLifecycleObserver.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/LoggingDnsQueryLifecycleObserver.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/SequentialDnsServerAddressStreamProvider.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/BiDnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java
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* /opt/cola/permits/1302049259_1649313689.35/0/netty-resolver-dns-4-1-75-final-sources-1-jar/io/netty/resolver/dns/DnsQueryLifecycleObserverFactory.java

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jseward@bzip.org
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* /opt/cola/permits/1258904111_1643118552.5/0/hazelcast-spring-4-1-1-sources-jar/com/hazelcast/spring/HazelcastFailoverClientBeanDefinitionParser.java
* /opt/cola/permits/1258904111_1643118552.5/0/hazelcast-spring-4-1-1-sources-jar/com/hazelcast/spring/HazelcastTypeBeanDefinitionParser.java
* /opt/cola/permits/1258904111_1643118552.5/0/hazelcast-spring-4-1-1-sources-jar/com/hazelcast/spring/hibernate/RegionFactoryBeanDefinitionParser.java
* /opt/cola/permits/1258904111_1643118552.5/0/hazelcast-spring-4-1-1-sources-jar/com/hazelcast/spring/cache/SpringHazelcastCachingProvider.java
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1.952 toml 0.10.1-1.ph4
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1.955 classgraph 4.8.139

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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelHandlerContextAdapter.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelHandlerMask.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].
 */

/* Sub-types */

/* [ @link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
   subtypes:
   */

/* <ul>
   * [ @link ChannelInboundHandler] to handle inbound I/O events, and</li>
   * [ @link ChannelOutboundHandler] to handle outbound I/O operations.</li>
   */

/* </ul>
 */

/* Alternatively, the following adapter classes are provided for your convenience:
   */

/* <ul>
   * [ @link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
   * [ @link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
   * [ @link ChannelDuplexHandler] to handle both inbound and outbound events</li>
   */

/* </ul>
 */

/* For more information, please refer to the documentation of each subtype.
 */

/*
 * <h3>The context object</h3>
 *
 * 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:
 *
 * public interface Message {
 *     // your methods here
 * }
 *
 * public class DataServerHandler extends [ @link SimpleChannelInboundHandler]&lt;Message&gt; { [  *
 *     private boolean loggedln;</h>
 *
 *     [ @code @Override]
* public void channelRead0([@link ChannelHandlerContext] ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*         if (loggedIn) {
*             ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*         } else {
*             fail();
*         }
*     }
* ...
* }<</pre><p>* 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 a unauthenticated client can get
* the confidential information:</p><p>* <pre><p>* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Codec)}.
* public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
* </pre></p></p><p>* <h4>Using {@link AttributeKey}s</h4></p><p>* 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><p>* public interface Message {
*     // your methods here
* }
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<{@link Message}> {
*     private final {@link AttributeKey}<{@link Boolean}> auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
* }
* </pre></p></p>
* 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 if (message instanceof GetDataMessage) {
    *         if (Boolean.TRUE.equals(attr.get())) {
    *             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
    *         } else {
    *             fail();
    *         }
    *     }
    *     ... *
* } */
* Now that the state of the handler is attached to the { @link ChannelHandlerContext }, you can add the same handler instance to different pipelines:
* */
* public class DataServerInitializer extends { @link ChannelInitializer }&lt;{ @link Channel }&gt; { *
*     private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();
* *
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);
*     }
* } */
* *
* &lt;h4&gt;The { @code @Sharable} annotation&lt;/h4&gt;
* *
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable} annotation.
* *
* 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.
* *
* 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.
* *
* 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.
* `*/`

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* `/opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources.jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java`
* `/opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources.jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java`
* `/opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources.jar/io/netty/channel/PendingBytesTracker.java`
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* `/opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources.jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java`
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  jar/io/netty/channel/DefaultSelectStrategy.java
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  jar/io/netty/channel/socket/DuplexChannel.java
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* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/cola/permits/1258896510_1643118317.74/0/netty-transport-4-1-48-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/AllArguments.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/auxiliary/AuxiliaryType.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/DefaultValue.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/DefaultMethodCall.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/RebaseImplementationTarget.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/ClassLoadingStrategy.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/NegatingMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/TypeWriter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/Assigner.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/asm/AsmVisitorWrapper.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/ClassReloadingStrategy.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/ElementMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/annotation/AnnotationValue.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/PackageDefinitionStrategy.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/TypeVariableSource.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/member/MethodReturn.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/IgnoreForBinding.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/TypeManifestation.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/DefaultCall.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/ReferenceTypeAwareAssigner.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/collection/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/PrimitiveTypeMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/IsNamedMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/method/ParameterDescription.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Pipe.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/ClassFileLocator.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/TargetType.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/method/MethodDescription.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/StackManipulation.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/CompoundList.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/build/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/ToStringMethod.java
jar/net/bytebuddy/matcher/SuperTypeMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/field/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/pool/TypePool.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/privilege/SetAccessibleAction.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/InvocationHandlerAdapter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/agent/builder/LambdaFactory.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/ClassWriterStrategy.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/ArgumentTypeResolver.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/FieldTypeMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/MethodNameTransformer.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/HashCodeMethod.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/field/FieldList.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/PackageDescription.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodParameterTypeMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/MethodNameTransformer.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/Implementation.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/PackageDescription.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodParameterTypeMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/JavaType.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/agent/builder/package-info.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/VisibilityMatcher.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/TypeDefinition.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/NoOpClassFileTransformer.java
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Found in path(s):
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/CurrentFrame.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/MethodWriter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Frame.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ClassVisitor.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Constants.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/FieldWriter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/TypePath.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/signature/SignatureReader.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ClassReader.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/TypeReference.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ModuleWriter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Symbol.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/FieldVisitor.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Context.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ClassWriter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Edge.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ConstantDynamic.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ByteVector.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handler.java
jar/net/bytebuddy/jar/asm/SymbolTable.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/AnnotationWriter.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Attribute.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/MethodTooLargeException.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ClassTooLargeException.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Handle.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Label.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Type.java
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/Opcodes.java
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Found in path(s):
* /opt/cola/permits/1258947704_1643119306.14/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/jar/asm/signature/package.html
Manifest-Version: 1.0
Bundle-Description: Byte Buddy is a Java library for creating Java classes at run time. This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: net.bytebuddy.byte-buddy
Built-By: rafael
Bnd-LastModified: 1542145452587
Bundle-ManifestVersion: 2
Tool: Bnd-3.5.0.201709291849
Main-Class: net.bytebuddy.build.Plugin$Engine$Default
Export-Package: net.bytebuddy;version="1.9.4",net.bytebuddy.agent.builder;version="1.9.4",net.bytebuddy.asm;version="1.9.4",net.bytebuddy.build;version="1.9.4",net.bytebuddy.description.annotation;version="1.9.4",net.bytebuddy.description.enumeration;version="1.9.4",net.bytebuddy.description.field;version="1.9.4",net.bytebuddy.description.method;version="1.9.4",net.bytebuddy.description.modifier;version="1.9.4",net.bytebuddy.description.type;version="1.9.4",net.bytebuddy.dynamic;version="1.9.4",net.bytebuddy.dynamic.loading;version="1.9.4",net.bytebuddy.dynamic.scaffold;version="1.9.4",net.bytebuddy.dynamic.scaffold.inline;version="1.9.4",net.bytebuddy.dynamic.scaffold.subclass;version="1.9.4",net.bytebuddy.implementation;version="1.9.4",net.bytebuddy.implementation.attribute;version="1.9.4",net.bytebuddy.implementation.auxiliary;version="1.9.4",net.bytebuddy.implementation.bind;version="1.9.4",net.bytebuddy.implementation.bind.annotation;version="1.9.4",net.bytebuddy.implementation.bytecode;version="1.9.4",net.bytebuddy.implementation.bytecode.assign;version="1.9.4",net.bytebuddy.implementation.bytecode.assign.primitive;version="1.9.4",net.bytebuddy.implementation.bytecode.assign.reference;version="1.9.4",net.bytebuddy.implementation.bytecode.collection;version="1.9.4",net.bytebuddy.implementation.bytecode.constant;version="1.9.4",net.bytebuddy.implementation.bytecode.member;version="1.9.4",net.bytebuddy.matcher;version="1.9.4",net.bytebuddy.pool;version="1.9.4",net.bytebuddy.utilility;version="1.9.4",net.bytebuddy.utilility.privilege;version="1.9.4",net.bytebuddy.utilility.visitor;version="1.9.4",net.bytebuddy.jar.asm;version="1.9.4",net.bytebuddy.jar.asm.signature;version="1.9.4",net.bytebuddy.jar.asm.commons;version="1.9.4"
Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.4
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_181

Found in path(s):
1.958 jersey-container-servlet 2.6
1.958.1 Available under license :
   CDDL+GPL License
   http://glassfish.java.net/public/CDDL+GPL_1_1.html

1.959 hibernate-validator 6.2.3.Final
1.959.1 Available under license :
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1.960 readline 8.0.4-r0
1.960.1 Available under license :
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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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

------
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

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1.967 sqlite 3.36.0-r0
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/ *
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexting and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
it is not possible to change the [threading mode] from its default value of Single-thread and so [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD configuration option.

** [[SQLITE_CONFIG_MULTITHREAD]]<dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the [threading mode] to Multi-thread. In other words, it disables mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to [database connections] and [prepared statements]. But other mutexes are enabled so that SQLite will be safe to use in a multi-threaded environment as long as no two threads attempt to use the same [database connection] at the same time. ^If SQLite is compiled with the [SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Multi-thread [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

** [[SQLITE_CONFIG_SERIALIZED]]<dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the [threading mode] to Serialized. In other words, this option enables all mutexes including the recursive mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access to [database connections] and [prepared statements] so that the application is free to use the same [database connection] or the same [prepared statement] in different threads at the same time. ^If SQLite is compiled with the [SQLITE_THREADSAFE=0] compile-time option then it is not possible to set the Serialized [threading mode] and [sqlite3_config()] will return [SQLITE_ERROR] if called with the SQLITE_CONFIG_SERIALIZED configuration option.</dd>

** [[SQLITE_CONFIG_MALLOC]]<dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies alternative low-level memory allocation routines to be used in place of the memory allocation routines built into SQLite.) ^SQLite makes its own private copy of the content of the [sqlite3_mem_methods] structure before the [sqlite3_config()] call returns.</dd>

** [[SQLITE_CONFIG_GET_MALLOC]]<dt>SQLITE_CONFIG_GET_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GET_MALLOC option takes a single argument which is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^ ** This option can be used to overload the default memory allocation ** routines with a wrapper that simulates memory allocation failure or ** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of ** type int, interpreted as a boolean, which if true provides a hint to ** SQLite that it should avoid large memory allocations if possible. ** SQLite will run faster if it is free to make large memory allocations, ** but some application might prefer to run slower in exchange for ** guarantees about memory fragmentation that are possible if large ** allocations are avoided. This hint is normally off. ** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int, ** interpreted as a boolean, which enables or disables the collection of ** memory allocation statistics. ^When memory allocation statistics are ** disabled, the following SQLite interfaces become non-operational:
** <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_free_heap_limit64()]
**   <li> [sqlite3_status64()]
**   <ul>
** ^Memory allocation statistics are enabled by default unless SQLite is ** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory ** allocation statistics are disabled by default. ** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used. ** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool ** that SQLite can use for the database page cache with the default page ** cache implementation. ** This configuration option is a no-op if an application-defined page ** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]. ** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to ** 8-byte aligned memory (pMem), the size of each page cache line (sz), ** and the number of cache lines (N). ** The sz argument should be the size of the largest database page ** (a power of two between 512 and 65536) plus some extra bytes for each ** page header. ^The number of extra bytes needed by the page header
can be determined using SQLite_CONFIG_PCACHE_HDRSZ.

It is harmless, apart from the wasted memory, for the sz parameter to be larger than necessary. The pMem argument must be either a NULL pointer or a pointer to an 8-byte aligned block of memory of at least sz\*N bytes, otherwise subsequent behavior is undefined.

When pMem is not NULL, SQLite will strive to use the memory provided to satisfy page cache needs, falling back to sqlite3_malloc() if a page cache line is larger than sz bytes or if all of the pMem buffer is exhausted.

If pMem is NULL and N is non-zero, then each database connection does an initial bulk allocation for page cache memory from sqlite3_malloc() sufficient for N cache lines if N is positive or of -1024*N bytes if N is negative. If additional page cache memory is needed beyond what is provided by the initial allocation, then SQLite goes to sqlite3_malloc() separately for each additional cache line.

The SQLITE_CONFIG_HEAP option specifies a static memory buffer that SQLite will use for all of its dynamic memory allocation needs beyond those provided for by SQLite_CONFIG_PAGECACHE.

The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled with either SQLITE_ENABLE_MEMSYS3 or SQLITE_ENABLE_MEMSYS5 and returns SQLITE_ERROR if invoked otherwise.

There are three arguments to SQLITE_CONFIG_HEAP:
- An 8-byte aligned pointer to the memory,
- the number of bytes in the memory buffer, and the minimum allocation size.
- If the first pointer (the memory pointer) is NULL, then SQLite reverts to using its default memory allocator (the system malloc() implementation), undoing any prior invocation of SQLite_CONFIG_MALLOC. If the memory pointer is not NULL then the alternative memory allocator is engaged to handle all of SQLite's memory allocation needs.
- The first pointer (the memory pointer) must be aligned to an 8-byte boundary or subsequent behavior of SQLite will be undefined.
- The minimum allocation size is capped at 2**12. Reasonable values for the minimum allocation size are 2**5 through 2**8.

The SQLITE_CONFIG_MUTEX option takes a single argument which is a pointer to an instance of the sqlite3_mutex_methods structure.

The argument specifies alternative low-level mutex routines to be used in place of the mutex routines built into SQLite. SQLite makes a copy of the content of the sqlite3_mutex_methods structure before the call to sqlite3_config() returns. If SQLite is compiled with the [SQLite_THREADSAFE] SQLITE_THREADSAFE=0 compile-time option then the entire muting subsystem is omitted from the build and hence calls to sqlite3_config() with the SQLITE_CONFIG_MUTEX configuration option will...
** return [SQLITE_ERROR].</dd>
**
** ![SQLITE_CONFIG_GETMUTEX] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire muting subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** ![SQLITE_CONFIG_LOOKASIDE] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.).^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.).^   </dd>
**
** ![SQLITE_CONFIG_PCACHE2] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.).^  
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** ![SQLITE_CONFIG_GETPCACHE2] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.).^   </dd>
**
** ![SQLITE_CONFIG_LOG] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** ^(The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^(The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding

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** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>

** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
**  <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
**  If non-zero, then URI handling is globally enabled. If the parameter is zero,
**  then URI handling is globally disabled.)^ ^If URI handling is globally
**  enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
**  [sqlite3_open16()] or
**  specified as part of [ATTACH] commands are interpreted as URIs, regardless
**  of whether or not the [SQLITE_OPEN_URI] flag is set when the database
**  connection is opened. ^If it is globally disabled, filenames are
**  only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
**  database connection is opened. ^By default, URI handling is globally
**  disabled. The default value may be changed by compiling with the
**  [SQLITE_USE_URI] symbol defined.)^

** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
**  <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
**  argument which is interpreted as a boolean in order to enable or disable
**  the use of covering indices for full table scans in the query optimizer.
**  ^The default setting is determined
**  by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
**  if that compile-time option is omitted.
**  The ability to disable the use of covering indices for full table scans
**  is because some incorrectly coded legacy applications might malfunction
**  when the optimization is enabled. Providing the ability to
**  disable the optimization allows the older, buggy application code to work
**  without change even with newer versions of SQLite.

** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
**  <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
**  <dd> These options are obsolete and should not be used by new code.
**  They are retained for backwards compatibility but are now no-ops.
**  </dd>

** [[SQLITE_CONFIG_SQLLOG]]
**  <dt>SQLITE_CONFIG_SQLLOG
**  <dd>This option is only available if sqlite is compiled with the
**  [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
**  be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
**  The second should be of type (void*). The callback is invoked by the library
**  in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>

**

** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dd>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>*The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dd>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dd>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
**</dd>
*/

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.h
No license file was found, but licenses were detected in source scan.

/*
 ** CAPI3REF: Configuration Options
 ** KEYWORDS: {configuration option}
 **
 ** These constants are the available integer configuration options that
 ** can be passed as the first argument to the [sqlite3_config()] interface.
 **
 ** New configuration options may be added in future releases of SQLite.
 ** Existing configuration options might be discontinued.  Applications
 ** should check the return code from [sqlite3_config()] to make sure that
 ** the call worked. The [sqlite3_config()] interface will return a
 ** non-zero [error code] if a discontinued or unsupported configuration option
 ** is invoked.
 **
 ** <dl>
 ** ![SQLITE_CONFIG_SINGLETHREAD] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
 ** <dd>There are no arguments to this option.  ^This option sets the
 ** [threading mode] to Single-thread.  In other words, it disables
 ** all mutexting and puts SQLite into a mode where it can only be used
 ** by a single thread.  ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to change the [threading mode] from its default
 ** value of Single-thread and so [sqlite3_config()] will return
 ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
 ** configuration option.</dd>
 **
 ** ![SQLITE_CONFIG_MULTITHREAD] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
 ** <dd>There are no arguments to this option.  ^This option sets the
 ** [threading mode] to Multi-thread.  In other words, it disables
 ** mutexting on [database connection] and [prepared statement] objects.
 ** The application is responsible for serializing access to
 ** [database connections] and [prepared statements].  But other mutexes
 ** are enabled so that SQLite will be safe to use in a multi-threaded
 ** environment as long as no two threads attempt to use the same
 ** [database connection] at the same time.  ^If SQLite is compiled with
 ** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
 ** it is not possible to set the Multi-thread [threading mode] and
 ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
 ** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
 **
 ** ![SQLITE_CONFIG_SERIALIZED] <dt>SQLITE_CONFIG_SERIALIZED</dt>
 ** <dd>There are no arguments to this option.  ^This option sets the
 ** [threading mode] to Serialized. In other words, this option enables
 ** all mutexes including the recursive
 ** mutexes on [database connection] and [prepared statement] objects.
 ** In this mode (which is the default when SQLite is compiled with
 **</dd>
 */
**[SQLITE_THREADSAFE=1]** the SQLite library will itself serialize access
to [database connections] and [prepared statements] so that the
same [database connection] or the
same [prepared statement] in different threads at the same time.
**If SQLite is compiled with
the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
it is not possible to set the Serialized [threading mode] and
[sqlite3_config()] will return [SQLITE_ERROR] if called with the
** [SQLITE_CONFIG_SERIALIZED configuration option.</dd>

** ** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>**
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>

** ** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>**
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulates memory allocation failure or
** tracks memory usage, for example. </dd>

** ** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>**
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>

** ** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>**
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_hard_heap_limit64()]
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]

---

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**<li>[sqlite3_status64()]
**</ul>)
**^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
**</dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd>The SQLITE_CONFIG_SCRATCH option is no longer used.
**</dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd>^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative. ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd>^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
There are three arguments to SQLITE_CONFIG_HEAP:
- An 8-byte aligned pointer to the memory,
- the number of bytes in the memory buffer, and the minimum allocation size.
- If the first pointer (the memory pointer) is NULL, then SQLite reverts
  to using its default memory allocator (the system malloc() implementation),
- undoing any prior invocation of [SQLITE_CONFIG_MALLOC].
- If the memory pointer is not NULL then the alternative memory
 allocator is engaged to handle all of SQLites memory allocation needs.
- The first pointer (the memory pointer) must be aligned to an 8-byte
 boundary or subsequent behavior of SQLite will be undefined.
- The minimum allocation size is capped at 2**12. Reasonable values
 for the minimum allocation size are 2**5 through 2**8.

[[SQLITE_CONFIG_MUTEX]]<dt>SQLITE_CONFIG_MUTEX</dt><dd>
- The SQLITE_CONFIG_MUTEX option takes a single argument which is a
  pointer to an instance of the [sqlite3_mutex_methods] structure.
- The argument specifies alternative low-level mutex routines to be used
  in place the mutex routines built into SQLite.
- SQLite makes a copy of the content of the [sqlite3_mutex_methods] structure before the call to
  [sqlite3_config()].
- If SQLite is compiled with
  the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
  the entire mutexing subsystem is omitted from the build and hence calls to
  [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
  return [SQLITE_ERROR].

[[SQLITE_CONFIG_GETMUTEX]]<dt>SQLITE_CONFIG_GETMUTEX</dt><dd>
- The SQLITE_CONFIG_GETMUTEX option takes a single argument which
  is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
- [sqlite3_mutex_methods] structure is filled with the currently defined mutex routines.
- This option can be used to overload the default mutex allocation
  routines with a wrapper used to track mutex usage for performance
  profiling or testing, for example. If SQLite is compiled with
  the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
  the entire mutexing subsystem is omitted from the build and hence calls to
  [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
  return [SQLITE_ERROR].

[[SQLITE_CONFIG_LOOKASIDE]]<dt>SQLITE_CONFIG_LOOKASIDE</dt><dd>
- The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
  the default size of lookaside memory on each [database connection].
- The first argument is the
  size of each lookaside buffer slot and the second is the number of
  slots allocated to each database connection.
- (SQLITE_CONFIG_LOOKASIDE sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
  option to [sqlite3_db_config()] can be used to change the lookaside
  configuration on individual connections.)

**
** [SQLITE_CONFIG_PCACHE2] <dt>SQLITE_CONFIG_PCACHE2</dt>**
**<dd>^The SQLITE_CONFIG_PCACHE2 option takes a single argument which is**
**a pointer to an [sqlite3_pcache_methods2] object. This object specifies**
**the interface to a custom page cache implementation.^^
**^SQLite makes a copy of the [sqlite3_pcache_methods2] object. </dd>**
**
** [SQLITE_CONFIG_GETPCACHE2] <dt>SQLITE_CONFIG_GETPCACHE2</dt>**
**<dd>^The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which**
**is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of**
**the current page cache implementation into that object.^^ </dd>**
**
** [SQLITE_CONFIG_LOG] <dt>SQLITE_CONFIG_LOG</dt>**
**<dd>^The SQLITE_CONFIG_LOG option is used to configure the SQLite**
**global [error log].
**^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a**
**function with a call signature of void(*)(void*,int,const char*),**
**and a pointer to void. ^If the function pointer is not NULL, it is**
**invoked by [sqlite3_log()] to process each logging event. ^If the**
**function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
**^The void pointer that is the second argument to SQLITE_CONFIG_LOG is**
**passed through as the first parameter to the application-defined logger**
**function whenever that function is invoked. ^The second parameter to**
**the logger function is a copy of the first parameter to the corresponding**
**[sqlite3_log()] call and is intended to be a [result code] or an**
**[extended result code]. ^The third parameter passed to the logger is**
**log message after formatting via [sqlite3_snprintf()].
**The SQLite logging interface is not reentrant; the logger function**
**supplied by the application must not invoke any SQLite interface.
**In a multi-threaded application, the application-defined logger**
**function must be threadsafe. </dd>**
**
** [SQLITE_CONFIG_URI] <dt>SQLITE_CONFIG_URI</dt>**
**<dd>^The SQLITE_CONFIG_URI option takes a single argument of type int.
**If non-zero, then URI handling is globally enabled. If the parameter is zero,**
**then URI handling is globally disabled.)^ ^If URI handling is globally**
**enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],**
**[sqlite3_open16()] or**
**specified as part of [ATTACH] commands are interpreted as URIs, regardless**
**of whether or not the [SQLITE_OPEN_URI] flag is set when the database**
**connection is opened. ^If it is globally disabled, filenames are**
**only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the**
**database connection is opened. ^By default, URI handling is globally**
**disabled. The default value may be changed by compiling with the**
**[SQLITE_USE_URI] symbol defined.^^
**
** [SQLITE_CONFIG_COVERING_INDEX_SCAN] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN</dt>**
**<dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer**
**argument which is interpreted as a boolean in order to enable or disable
**the use of covering indices for full table scans in the query optimizer.
**^The default setting is determined
**by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
**if that compile-time option is omitted.
**The ability to disable the use of covering indices for full table scans
**is because some incorrectly coded legacy applications might malfunction
**when the optimization is enabled. Providing the ability to
**disable the optimization allows the older, buggy application code to work
**without change even with newer versions of SQLite.
**
**[[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
**<dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
**<dd> These options are obsolete and should not be used by new code.
**They are retained for backwards compatibility but are now no-ops.
**</dd>
**
**[[SQLITE_CONFIG_SQLLOG]]
**<dt>SQLITE_CONFIG_SQLLOG
**<dd>This option is only available if sqlite is compiled with the
**[[SQLITE_ENABLE_SQLLOG]] pre-processor macro defined. The first argument should
**be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
**The second should be of type (void*). The callback is invoked by the library
**in three separate circumstances, identified by the value passed as the
**fourth parameter. If the fourth parameter is 0, then the database connection
**passed as the second argument has just been opened. The third argument
**points to a buffer containing the name of the main database file. If the
**fourth parameter is 1, then the SQL statement that the third parameter
**points to has just been executed. Or, if the fourth parameter is 2, then
**the connection being passed as the second parameter is being closed. The
**third parameter is passed NULL In this case. An example of using this
**configuration option can be seen in the "test_sqllog.c" source file in
**the canonical SQLite source tree.</dd>
**
**[[SQLITE_CONFIG_MMAP_SIZE]]
**<dt>SQLITE_CONFIG_MMAP_SIZE
**<dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
**that are the default mmap size limit (the default setting for
**[PRAGMA mmap_size]) and the maximum allowed mmap size limit.
**^The default setting can be overridden by each database connection using
**either the [PRAGMA mmap_size] command, or by using the
**[SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
**will be silently truncated if necessary so that it does not exceed the
**compile-time maximum mmap size set by the
**[SQLITE_MAX_MMAP_SIZE] compile-time option.)^
**^If either argument to this option is negative, then that argument is
**changed to its compile-time default.
**
**[[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDERSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDERSZ
** <dd>The SQLITE_CONFIG_PCACHE_HDERSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dt>
*/
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain.
**
******************************************************
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
******************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.

**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.

**
** The layout of divisions is as follows:

**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/
/**
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/sqlite3.c
No license file was found, but licenses were detected in source scan.

/* This will be more informative in a later version. */

Found in path(s):
* /opt/cola/permits/1188427916_1645733692.08/0/sqlite-amalgamation-3380000-zip/sqlite-amalgamation-3380000/shell.c
1.968 woodstox-core 6.2.1
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1.971 netty-transport-native-kqueue

4.1.75.Final

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* /opt/cola/permits/1301917098_1649305490.13/0/netty-transport-native-kqueue-4-1-75-final-sources-jar/netty_kqueue_native.c
* /opt/cola/permits/1301917098_1649305490.13/0/netty-transport-native-kqueue-4-1-75-final-sources-jar/netty_kqueue_eventarray.h
* /opt/cola/permits/1301917098_1649305490.13/0/netty-transport-native-kqueue-4-1-75-final-sources-jar/netty_kqueue_eventarray.c
* /opt/cola/permits/1301917098_1649305490.13/0/netty-transport-native-kqueue-4-1-75-final-sources-jar/netty_kqueue_bsdsocket.h
* /opt/cola/permits/1301917098_1649305490.13/0/netty-transport-native-kqueue-4-1-75-final-sources-
jar/netty_kqueue_bsdsocket.c
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1.972 spring-expression 3.0.5.RELEASE

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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/common/ExpressionUtils.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/TypedValue.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/MethodResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/BeanResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/BeanReference.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/TypeConverter.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/common/TemplateParserContext.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/FormatHelper.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/InlineList.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/EvaluationContext.java
"foo${expr0}bar${expr1}". The static

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* * number of expressions all contained in "${...}" markers. For instance
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jar/org/springframework/expression/spel/ast/AstUtils.java
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" +

Found in path(s):
* " for expression starting at character " + prefixIndex + "
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case '[';case ']':

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* case '}'
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Found in path(s):
* * http
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case ';': case ':'

Found in path(s):
* case '{'
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square brackets [] round brackets () and curly brackets {} 

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* * Bracket is used to describe
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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/Operation.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/support/StandardEvaluationContext.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/MethodExecutor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/NullLiteral.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/standard/TokenKind.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/OperatorOverloader.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpGE.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/Identifier.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorNot.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpMultiply.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpSubtract.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpLessThan.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/common/LiteralExpression.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/spel/SpelMessage.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpGreaterThanOrEqual.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpLessThanThanOrEqual.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorAnd.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorOr.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpAdd.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpEquals.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpNegate.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorPower.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpLeftShift.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OpRightShift.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorBitwiseAnd.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorBitwiseOr.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorBitwiseXor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorLogicalAnd.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorLogicalOr.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorLogicalXor.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorLogicalNot.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorIn.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorInstanceOf.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorLogicalNegate.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorNotIn.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorIsTrue.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorIsFalse.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorIsFalseOrNull.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorIsFalseOrNullForConditionalExpression.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorIsTrueOrNull.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorIsTrueOrNullForConditionalExpression.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-
jar/org/springframework/expression/spel/ast/OperatorBinary.jsp
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jar/org/springframework/expression/spel/ast/OpGT.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/ExpressionParser.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/OpPlus.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/OpLE.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/SpelParserConfiguration.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/support/BooleanTypedValue.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/TypeReference.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/OpAnd.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/CompositeStringExpression.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1136700921_1613684513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/ast/StringLiteral.java
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* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/SpelParseException.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/ParserContext.java
* /opt/cola/permits/1136700921_1613864513.4/0/spring-expression-3-0-5-release-sources-3-jar/org/springframework/expression/spel/SpelEvaluationException.java

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1.974 jzlib 1.0.7

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1.975 netty-codec 4.1.48.Final

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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/base64/Base64Dialect.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.

The value of the length field in this example is 12 (0x0C) 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.

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
</pre>

BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
</pre>

BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
message header. In such a case, we specify a non-zero
lengthAdjustment. Because the length value in this example message
is always greater than the body length by 2, we specify -2 for
as lengthAdjustment for compensation.

```plaintext
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" |
+--------+----------------+      +--------+----------------+
```

<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. again because the decoder always takes the length of the prepended data into
account during frame length calculation.

```plaintext
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" |
+----------+----------+----------------+      +----------+----------+----------------+
```

<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 lengthAdjustment so that the decoder counts the extra
header into the frame length calculation.

```plaintext
lengthFieldOffset = 0
lengthFieldLength = 3
lengthAdjustment = 2 (= the length of Header 1)
initialBytesToStrip = 0
```
Before decode (17 bytes)        After decode (17 bytes)
+-----------------------------+-----------------------------+
|    Length                  |    Length                  |
|  0x00000c                   |  0x00000c                   |
|  0xCAFE                    |  0xCAFE                    |
| "HELLO, WORLD"             | "HELLO, WORLD"             |
+-----------------------------+-----------------------------+

Before decode (16 bytes)        After decode (13 bytes)
+-----------------------------+-----------------------------+
|  HDR1 | Length | HDR2 | Actual Content |
|  0xCA | 0x000c | 0xFE | "HELLO, WORLD" |
| +-----------------------------+-----------------------------+

Before decode (16 bytes)        After decode (13 bytes)
+-----------------------------+-----------------------------+
|  HDR1 | Length | HDR2 | Actual Content |
|  0xCA | 0x000c | 0xFE | "HELLO, WORLD" |
| +-----------------------------+-----------------------------+

Before decode (16 bytes)        After decode (13 bytes)
+-----------------------------+-----------------------------+
|  HDR1 | Length | HDR2 | Actual Content |
|  0xCA | 0x000c | 0xFE | "HELLO, WORLD" |
| +-----------------------------+-----------------------------+

Before decode (16 bytes)        After decode (13 bytes)
+-----------------------------+-----------------------------+
|  HDR1 | Length | HDR2 | Actual Content |
|  0xCA | 0x000c | 0xFE | "HELLO, WORLD" |
| +-----------------------------+-----------------------------+
* HDR1 | Length | HDR2 | Actual Content | HDR2 | Actual Content |
* 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | 0xFE | "HELLO, WORLD"

* @see LengthFieldPrepender
*/

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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/HeadersUtils.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/ProtocolDetectionState.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtocolDetectionResult.java
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  jar/io/netty/handler/codecserialization/CompatibleObjectEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codecserialization/SoftReferenceMap.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codecserialization/CompactObjectOutputStream.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codecserialization/ClassResolver.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codecserialization/ClassResolver.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
  jar/io/netty/handler/codecserialization/ClassResolver.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java

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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
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jar/io/netty/handler/codec/DatagramPacketDecoder.java
  * /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/string/LineSeparator.java
  * /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
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jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1258898427_1643118299.31/0/netty-codec-4-1-48-final-sources-
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 */

package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */

public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }
}
public void setDescription(String description) {
    this.description = description;
}

public String getPermission() {
    return permission;
}

public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates that this permission has been allocated by default.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only
 * @param isDefault
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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import java.io.IOException;
import java.io.InputStream;

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 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;
}

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 * Not supported.  <b>Your are attempting to create a map that may contain a non-{@code Comparable}</b>
 * 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
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ImmutableSetMultimap.java
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  jar/com/google/common/collections/JdkBackedImmutableMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collections/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collections/IndexedImmutableSet.java
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  jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/AbstractListeningExecutorService.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
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 */

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* /opt/cola/permits/1110675684_1606843710.64/or/google/common/cache/Striped64.java
* /opt/cola/permits/1110675684_1606843710.64/or/google/common/cache/LongAdder.java
* /opt/cola/permits/1110675684_1606843710.64/or/google/common/hash/Striped64.java
* /opt/cola/permits/1110675684_1606843710.64/or/google/common/hash/LongAdder.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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  jar/com/google/common/base/SmallCharMatcher.java

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  jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/MoreObjects.java

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  jaar/com/google/common/hash/MacHashFunction.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/util/concurrent/AsyncCallable.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/hash/LittleEndianByteArray.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/util/concurrent/InterruptibleTask.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/util/concurrent/CombinedFuture.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/util/concurrent/AggregateFutureState.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/hash/FarmHashFingerprint64.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/io/ReaderInputStream.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/collect/ConsumingQueueIterator.java
  */opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jaar/com/google/common/util/concurrent/Platform.java

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  jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/SortedLists.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/net/package-info.java
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  jar/com/google/common/net/package-info.java

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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.
* 
* &lt;p&gt;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.
*/

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  jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
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*/
/**
* Holder for extra methods of {code Objects} only in web. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/SortedMapDifference.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/ForwardingListMultimap.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingLock.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
 */

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

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jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/JdkPattern.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/reflect/TypeVisitor.java

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  jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Predicates.java
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  jar/com/google/common/base/Objects.java
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  jar/com/google/common/base/Function.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/eventbus/package-info.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/Files.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/CountingInputStream.java
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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.
* /
*/

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jar/com/google/common/collection/JdkBackedImmutableMultiset.java
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jar/com/google/common/hash/ImmutableSupplier.java
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jar/com/google/common/graph/AbstractBaseGraph.java
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jar/com/google/common/graph/Traverser.java
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jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/io/ByteSource.java
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  jar/com/google/common/io/CharSource.java
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  jar/com/google/common/cache/CacheBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/OperationAuthReader.java

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*/

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1.995 hibernate-commons-annotations

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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%(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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| 3.1.2   | 3.1           | 2010 | PSF     | yes         
| 3.2     | 3.1           | 2010 | PSF     | yes         

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* /opt/cola/permits/1335933469_1654004406.6611712/0/reflectasm-1-11-3-sources-2-jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java
* /opt/cola/permits/1335933469_1654004406.6611712/0/reflectasm-1-11-3-sources-2-jar/com/esotericsoftware/reflectasm/MethodAccess.java

1.1011 jinja2 2.11.2

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```python
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r"__version__ = "(.*)"", f.read(), re.M).group(1)
```

---

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setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine."
    long_description=readme
    classifiers=[
        "Development Status :: 5 - Production/ Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/ HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML"
    ],
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    install_requires=["MarkupSafe>=0.23"],
    extras_require={"i18n": ["Babel>=0.8"]},
    entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]}
)

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Code, https://github.com/pallets/jinja
Description: Jinja

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
---------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2

In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}

Links
-----

Website: https://palletsprojects.com/p/jinja/
Documentation: https://jinja.palletsprojects.com/
Releases: https://pypi.org/project/Jinja2/
Code: https://github.com/pallets/jinja
Issue tracker: https://github.com/pallets/jinja/issues
Test status: https://dev.azure.com/pallets/jinja/_build
Official chat: https://discord.gg/t6rrQZH

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*
Description-Content-Type: text/x-rst
Provides-Extra: i18n
Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKGINFO

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1.1012 ezmorph 1.0.5

1.1013 xbean-spring 4.2
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1.1015 jakarta-annotation-api 1.3.5

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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

1.1017 protobuf-java-util 3.8.0

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1.1018 py3-cachecontrol 0.12.10-r0

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Metadata-Version: 2.1
Name: CacheControl
Version: 0.12.10
Summary: httplib2 caching for requests
Home-page: https://github.com/ionrock/cachecontrol
Author: Eric Larson
Author-email: eric@ionrock.org
License: UNKNOWN
Description: ..

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==============
CacheControl
==============

.. image:: https://img.shields.io/pypi/v/cachecontrol.svg
   :target: https://pypi.python.org/pypi/cachecontrol
   :alt: Latest Version

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CacheControl is a port of the caching algorithms in httplib2_ for use with requests_ session object.

It was written because httplib2's better support for caching is often mitigated by its lack of thread safety. The same is true of requests in terms of caching.
Quickstart
==========

.. code-block:: python

    import requests

    from cachecontrol import CacheControl

    sess = requests.session()
    cached_sess = CacheControl(sess)

    response = cached_sess.get('http://google.com')

    If the URL contains any caching based headers, it will cache the
    result in a simple dictionary.

    For more info, check out the docs_

    .. _docs: http://cachecontrol.readthedocs.org/en/latest/
    .. _httplib2: https://github.com/httplib2/httplib2
    .. _requests: http://docs.python-requests.org/

Keywords: requests http caching web
Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Environment :: Web Environment
Classifier: License :: OSI Approved :: Apache Software License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: 3.9
Classifier: Programming Language :: Python :: 3.10
Classifier: Topic :: Internet :: WWW/HTTP
Requires-Python: >=3.6
Provides-Extra: redis
Provides-Extra: filecache

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1.1019 management-core 2.1.6

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1.1021 kryo 4.0.2

1.1022 jackson-xc 2.10.5

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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### 1.1023 jetty-http 9.4.45.v20220203

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1.1024 jakarta-ws-rs-api 2.1.6

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### 1.1030 grpc-netty-shaded 1.30.2

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1.1032 snake-yaml 1.26

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1.1043 jaxb-runtime 2.3.3

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 *
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 *
 */

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A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

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Manifest-Version: 1.0
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name:
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.all
Implementation-Version: 4.1.72.Final
1.1054 objenesis 3.2

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* /opt/cola/permits/1007294135_1646171712.95/0/error-prone-annotations-2-3-2-sources-
  jar/com/google/errorprone/annotations/concurrent/LazyInit.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-jar/org/springframework/test/jpa/OrmXmlOverridingShadowingClassLoader.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/mock/web/DelegatingServletOutputStream.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/transaction/BeforeTransaction.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/util/ReflectionTestUtils.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/junit38/AbstractJUnit38SpringContextTests.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/context/transaction/BeforeTransaction.java
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* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/web/ModelAndViewAssert.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1.jar/org/springframework/test/api/EmptyTest.java
jar/org/springframework/test/context/ContextConfiguration.java
* /opt/cola/permits/1138563469_1614290755.99/0/spring-test-3-0-5-release-sources-1-
jar/org/springframework/mock/web/portlet/MockEventRequest.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:
 * <ul>
 * <li> { @link ChannelInboundHandler} to handle inbound I/O events, and</li>
 * </ul>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </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 ChannelHandlerContext} 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}&lt;Message&gt; {
*     
*     private boolean loggedIn;
*
*     } @code @Override
* public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*     if (message instanceof LoginMessage) {
*          authenticate((LoginMessage) message);
*     loggedIn = true;</b>
*     } else (message instanceof GetDataMessage) {
*          if (<b>loggedIn</b>) {
*              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 a unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See [ChannelInitalizer#initChannel(Channel)].
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Using `AttributeKey`s

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 `AttributeKey`s which is provided by
`ChannelHandlerContext`:

```java
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }
}
```
Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

The `@Sharable` annotation

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

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.

This annotation is provided for documentation purpose, just like the JCIP annotations.

Additional resources worth reading

Please refer to the `ChannelHandler`, and `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.

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  jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/channel/group/VoidChannelGroupFuture.java
* /opt/cola/permits/1301894932_1649303793.42/0/netty-transport-4-1-75-final-sources-1-
  jar/io/netty/bootstrap/BootstrapConfig.java
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  jar/io/netty/channel/WriteBufferWaterMark.java
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  jar/io/netty/channel/SelectStrategy.java
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1.1078 libedit 20191231.3.1-r1

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1.1079 webencodings 0.5.1

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
import re

VERSION = re.search("VERSION = '([^']+)'\", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read()).group(1)

LONG_DESCRIPTION = io.open(path.join(path.dirname(__file__), 'README.rst'), encoding='utf-8').read()
setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
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webencodings.mklables
~~~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

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import json

try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen


def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = ['

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

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    ***

    # XXX Do not edit!
    # This file is automatically generated by mklabels.py

    LABELS = {
    ""
    }
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category
        for label in encoding['labels']
    ]

    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,
' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}

    return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard (<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content when interpreting something like `Content-Type: text/html; charset=latin1`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
This is a Python implementation of the `WHATWG Encoding standard`_

(http://encoding.spec.whatwg.org/).

Latest documentation: http://packages.python.org/webencodings/

Source code and issue tracker:
https://github.com/gsnedders/python-webencodings

PyPI releases: http://pypi.python.org/pypi/webencodings

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Python 2.6+ and 3.3+

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not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
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1.1080 readline 8.1.1-r0
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include/GL/gl.h :

Mesa 3-D graphics library

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---
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include,GL/xext.h
include/GL/wglxext.h :

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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/asm/ByteVector.java
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/ast/ThisFunctionNode.java
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* /opt/cola/permits/1336081932_1654014311.125866/0/mvel2-2-4-13-final-sources-jar/org/mvel2/util/ClassName.java
jar/org/mvel2/sh/CommandException.java
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jar/org/mvel2/ast/PostFixDecNode.java
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1.1090 coreutils 8.32-r0

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*/opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/serializers/OptionalSerializers.java
*/opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/serializers/TimeSerializers.java
*/opt/cola/permits/1001160891_1606875610.06/0/kryo-4-0-1-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializerConfig.java
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1.1102 vertx-core 4.2.7

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Found in path(s): * /opt/cola/permits/1340819365_1654719887.3958633/0/vertx-core-4-2-7-1-jar/META-INF/maven/io.vertx/vertx-core/pom.xml
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# Core commands
io.vertx.core.impl.launcher.commands.RunCommandFactory
io.vertx.core.impl.launcher.commands.VersionCommandFactory
io.vertx.core.impl.launcher.commands.BareCommandFactory

# Background application control
io.vertx.core.impl.launcher.commands.ListCommandFactory
io.vertx.core.impl.launcher.commands.StartCommandFactory
io.vertx.core.impl.launcher.commands.StopCommandFactory

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* /opt/cola/permits/1340819365_1654719887.3958633/0/vertx-core-4-2-7-1-jar/META-INF/services/io.vertx.core.spi.launcher.CommandFactory

1.1103 javassist 3.24.0-GA
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/StubGenerator.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/ObjectNotFoundException.java

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/ObjectNotFoundException.java

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1.1105 netty-codec-memcache 4.1.75.Final

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* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheRequest.java
* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-jar/io/netty/handler/codec/memcache/binary/BinaryMemcacheObjectAggregator.java
* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-jar/io/netty/handler/codec/memcache/binary/DefaultLastMemcacheContent.java
* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-jar/io/netty/handler/codec/memcache/binary/package-info.java
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* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-jar/io/netty/handler/codec/memcache/MemcacheObject.java
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* /opt/cola/permits/1313350799_1650567017.46/0/netty-codec-memcache-4-1-75-final-sources-2-jar/META-INF/maven/io.netty/netty-codec-memcache/pom.xml

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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1.1112 sizeof-agent 1.0.1

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1.1116 tre 0.8.0

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