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a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
The snowball stopword lists in
analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
http://snowball.tartarus.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-Umass Amherst)
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The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/ru/RussianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.59 spring-web-mvc 4.3.19

1.60 jose-jwt 3.0.19

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1.74 j2objc-annotations 1.1

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

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

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

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

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>. For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ol>
  <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</li>
  <li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ol>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

ReplaceableString is an adapter class that implements the Replaceable API around an ordinary StringBuffer.

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

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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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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1.76 jbossjaxbapi 1.0.4

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1.79 opentracing-spring-web 0.3.2

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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.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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1.97 httpcomponents-client 4.5

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If such an object file uses only numerical parameters, data
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1.133 jackson-jaxrs 1.9.13

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1.134 resteasy-crypto 3.0.19

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1.148 opensaml-xacml-impl 3.1.1

1.149 amqp-client 3.6.2
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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1.174 java-support 7.1.1

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1.199 slf4j 1.7.7.jbossorg-1

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lib/csharp/src/Protocol/TPortocol.cs
lib/csharp/src/Protocol/TPortocolException.cs
lib/csharp/src/Protocol/TPortocolFactory.cs
lib/csharp/src/Protocol/TPortocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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1.238 cxf-services-sts-core 3.1.6

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1.239 picketlink-idm-api 2.5.5.SP2

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```java
package org.picketlink.idm.permission.acl.spi;

import org.picketlink.common.properties.Property;
import org.picketlink.common.properties.query.AnnotatedPropertyCriteria;
import org.picketlink.common.properties.query.PropertyQueries;
import org.picketlink.idm.IdentityManagementException;

import java.io.Serializable;
import java.lang.annotation.Annotation;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import static org.picketlink.common.reflection.Reflections.classForName;

/**
 * @author Shane Bryzak
 */
public class EntityPermissionHandler extends BaseAbstractPermissionHandler {

    private static final String SEPARATOR = "::";

    private Class<? extends Annotation> entityAnnotationClass = null;
    private Class<? extends Annotation> idAnnotationClass = null;
    private Map<Class<?>, List<Property<Serializable>>> idProperties =
        new ConcurrentHashMap<Class<?>, List<Property<Serializable>>>();

    public EntityPermissionHandler() {
        try {
            entityAnnotationClass = classForName("javax.persistence.Entity");
```
idAnnotationClass = classForName("javax.persistence.Id");
} catch (ClassNotFoundException ex) {
    // Entity permissions not supported
}

@Override
public boolean canHandle(Class<?> resourceClass) {
    return entityAnnotationClass != null && resourceClass.isAnnotationPresent(entityAnnotationClass);
}

private List<Property<Serializable>> getIdProperties(Object resource) {
    Class<?> resourceClass = unwrapResourceClass(resource);

    if (!idProperties.containsKey(resourceClass)) {
        queryIdProperties(resourceClass);
    }
    return idProperties.get(resourceClass);
}

private synchronized void queryIdProperties(Class<?> resourceClass) {
    if (!idProperties.containsKey(resourceClass)) {
        List<Property<Serializable>> props = PropertyQueries.<Serializable>createQuery(resourceClass)
            .addCriteria(new AnnotatedPropertyCriteria(idAnnotationClass))
            .getResultList();

        // If there is more than one property sort them in ascending alphabetical order
        if (props.size() > 1) {
            Collections.sort(props, new Comparator<Property<Serializable>>() {
                @Override
                public int compare(Property<Serializable> a, Property<Serializable> b) {
                    return a.getName().compareTo(b.getName());
                }
            });
        }
    }
    idProperties.put(resourceClass, props);
}

/**
* TODO we only support @Id identifiers at the moment, still need to add support for @EmbeddedId etc
* @param resource
* @return
*/
@Override
public Serializable getIdentifier(Object resource) {
List<Property<Serializable>> props = getIdProperties(resource);

    // If the entity has a single @Id property, return it
    if (props.size() == 1) {
        return props.get(0).getValue(resource);
    } else if (props.size() > 1) {
        StringBuilder sb = new StringBuilder();
        for (Property<Serializable> p : props) {
            if (sb.length() > 0) {
                sb.append(SEPARATOR);
            }
            sb.append(p.getValue(resource).toString());
        }
        return sb.toString();
    } else {
        throw new IdentityManagementException(
                String.format("Could not locate @Id property for specified resource [%s]", resource));
    }
}

@Override
public Class<?> unwrapResourceClass(Object resource) {
    return resource.getClass();
}

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 */

package org.picketlink.idm.permission.spi;
import java.io.Serializable;
import java.util.List;
import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.spi.PermissionVoter.VotingResult;

/**
 * Iterates through the configured PermissionVoter instances to determine whether a resource permission
 * is to be allowed or denied.
 * @author Shane Bryzak
 */
public class PermissionResolver {
  private final List<PermissionVoter> voters;

  public PermissionResolver(List<PermissionVoter> voters) {
    this.voters = voters;
  }

  public boolean resolvePermission(IdentityType recipient, Object resource, String operation) {
    boolean permit = false;
    for (PermissionVoter voter : voters) {
      VotingResult result = voter.hasPermission(recipient, resource, operation);
      if (VotingResult.ALLOW.equals(result)) {
        permit = true;
      } else if (VotingResult.DENY.equals(result)) {
        return false;
      }
    }
    return permit;
  }

  public boolean resolvePermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String operation) {
    boolean permit = false;
    for (PermissionVoter voter : voters) {
      VotingResult result = voter.hasPermission(recipient, resourceClass, identifier, operation);
      if (VotingResult.ALLOW.equals(result)) {
        permit = true;
      } else if (VotingResult.DENY.equals(result)) {
        return false;
      }
    }
    return permit;
  }
}
public class PermissionHandlerPolicy {
    private Map<Class<?>, PermissionHandler> classHandlers = new ConcurrentHashMap<Class<?>, PermissionHandler>();

    private Set<PermissionHandler> registeredHandlers = new HashSet<PermissionHandler>();

    public PermissionHandlerPolicy(Set<PermissionHandler> handlers) {
        if (handlers == null || handlers.isEmpty()) {
            registeredHandlers.add(new EntityPermissionHandler());
        }
        if (handlers != null) {
            for (PermissionHandler handler : handlers) {
                registeredHandlers.add(handler);
            }
        }
    }

    public PermissionHandler getHandler(Class<?> clazz) {
        return classHandlers.get(clazz);
    }

    public void addHandler(PermissionHandler handler) {
        registeredHandlers.add(handler);
        classHandlers.put(handler.getClass(), handler);
    }

    public void removeHandler(PermissionHandler handler) {
        if (registeredHandlers.remove(handler)) {
            classHandlers.remove(handler.getClass());
        }
    }
}

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.IdentityManagementException;
import org.picketlink.idm.permission.annotations.PermissionsHandledBy;

import java.io.Serializable;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
registeredHandlers.add(new ClassPermissionHandler());
registeredHandlers.add(new StringPermissionHandler());
}

public Serializable getIdentifier(Object resource) {
    if (resource instanceof String) {
        return (String) resource;
    }

    PermissionHandler handler = getHandlerForResource(resource);
    return handler != null ? handler.getIdentifier(resource) : null;
}

public Class<?> getResourceClass(Object resource) {
    if (resource instanceof String) {
        return String.class;
    }

    PermissionHandler handler = getHandlerForResource(resource);
    if (handler == null) {
        throw new IdentityManagementException(String.format("No permission handler registered for resource [%s]", resource.toString()));
    }
    return handler.unwrapResourceClass(resource);
}

private PermissionHandler getHandlerForResource(Object resource) {
    PermissionHandler handler = null;
    if (resource.getClass().isAnnotationPresent(PermissionsHandledBy.class)) {
        Class<? extends PermissionHandler> handlerClass = resource.getClass().getAnnotation(PermissionsHandledBy.class).value();
        if (handlerClass != PermissionHandler.class) {
            try {
                handler = handlerClass.newInstance();
                classHandlers.put(resource.getClass(), handler);
            } catch (Exception ex) {
                throw new RuntimeException("Error instantiating IdentifierStrategy for object ", ex);
            }
        }
    }
    return handler;
}
for (PermissionHandler s : registeredHandlers) {
    if (s.canHandle(resource.getClass())) {
        handler = s;

        Class<?> resourceClassKey = resource.getClass();

        if (Class.class.isInstance(resource)) {
            resourceClassKey = (Class<?>) resource;
        }

        classHandlers.put(resourceClassKey, handler);
        break;
    }
}

return handler;
}

public Set<PermissionHandler> getRegisteredHandlers() {
    return registeredHandlers;
}

public void registerHandler(PermissionHandler handler) {
    this.registeredHandlers.add(handler);
}

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 */

package org.picketlink.idm.permission.acl.spi;

import java.io.Serializable;
import java.util.Set;
/**
 * Handles the generation of permission resource identifiers, and is responsible for the
 * marshaling / unmarshaling of permissions
 *
 * @author Shane Bryzak
 */

public interface PermissionHandler {

/**
 * Returns true if the implementation can handle resources of the specified class
 *
 * @param resourceClass
 * @return
 */

boolean canHandle(Class<?> resourceClass);

/**
 * Returns a Serializable identifier value that can be used to uniquely identify the specified resource
 *
 * @param resource
 * @return
 */

Serializable getIdentifier(Object resource);

/**
 * Returns the formal class of the specified resource
 *
 * @param resource
 * @return
 */

Class<?> unwrapResourceClass(Object resource);

/**
 * Returns a set containing the available permissions for a resource class.  If there are no hard coded
 * permissions defined (i.e. any permission is allowed) then this method must return an empty set.
 *
 * @param resourceClass
 * @return
 */

Set<String> listClassOperations(Class<?> resourceClass);

/**
 * Returns a set containing the available permissions for a particular resource instance.  If there are no hard coded
 * permissions defined (i.e. any permission is allowed) then this method must return an empty set.
 *
 * @param resourceClass
 * @return
 */
package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.permission.annotations.PermissionsHandledBy;

import java.io.Serializable;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

/**
 * An Identifier strategy for class-based permission checks
 *
 * @author Shane Bryzak
 */
public class ClassPermissionHandler extends BaseAbstractPermissionHandler implements PermissionHandler {

    private Map<Class<?>, String> identifierNames = new ConcurrentHashMap<Class<?>, String>();

    @Override
    public boolean canHandle(Class<?> resourceClass) {
        return Class.class.equals(resourceClass);
    }

    @Override
    public Serializable getIdentifier(Object resource) {
        if (!(resource instanceof Class<?>)) {
            throw new IllegalArgumentException("Resource "+ resource + " must be instance of Class");
        }
    }

    @Override
    public boolean canHandle(Class<?> resourceClass) {
        return Class.class.equals(resourceClass);
    }

    @Override
    public Serializable getIdentifier(Object resource) {
        if (!(resource instanceof Class<?>)) {
            throw new IllegalArgumentExce"Resource [" + resource + "] must be instance of Class");
        }
    }

}
return ((Class<?>) resource).getName();
}

private String getIdentifierName(Class<?> cls) {
    if (!identifierNames.containsKey(cls)) {
        String name = null;

        if (cls.isAnnotationPresent(PermissionsHandledBy.class)) {
            PermissionsHandledBy handledBy = (PermissionsHandledBy)
            cls.getAnnotation(PermissionsHandledBy.class);
            if (handledBy.name() != null && !"".equals(handledBy.name().trim())) {
                name = handledBy.name();
            }
        }

        if (name == null) {
            name = cls.getName().substring(cls.getName().lastIndexOf( "+ 1);
        }

        identifierNames.put(cls, name);
        return name;
    }

    return identifierNames.get(cls);
}

@Override
public Class<?> unwrapResourceClass(Object resource) {
    return Class.class.isInstance(resource) ? (Class<?>) resource : resource.getClass();
}

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package org.picketlink.idm.permission.annotations;

import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;
import org.picketlink.idm.permission.acl.spi.PermissionHandler;

/**
 * Configures the permission handler to use for instance-based permissions. The specified class
 * should implement the PermissionHandler interface.
 *
 * @author Shane Bryzak
 */
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface PermissionsHandledBy {
    Class<? extends PermissionHandler> value() default PermissionHandler.class;
    String name() default "";
}

package org.picketlink.idm.permission;

import java.io.Serializable;
import org.picketlink.idm.model.IdentityType;

/**
 * Represents a resource permission that is assigned to a specific IdentityType.
 *
 * @author Shane Bryzak
 */
public class IdentityPermission extends Permission {
    private IdentityType assignee;

    public IdentityPermission(Object resource, IdentityType assignee, String operation) {
        super(resource, operation);
        this.assignee = assignee;
    }
}
public class IdentityPermission extends IdentityPermissionBase {
    public IdentityPermission(Class<? extends IdentityType> resourceClass, Serializable resourceIdentifier, IdentityType assignee, String operation) {
        super(resourceClass, resourceIdentifier, operation);
        this.assignee = assignee;
    }

    /**
     * Returns the identity to which the permission is assigned.
     * @return
     */
    public IdentityType getAssignee() {
        return assignee;
    }
}

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.Permission;
import org.picketlink.idm.spi.IdentityContext;

import java.io.Serializable;
import java.util.List;
import java.util.Set;

/**<p>Permission Store interface</p>*/
public interface PermissionStore {

    /**
     * Returns a List value containing all permissions for the specified resource.
     * @param resource
     * @return
     */
    List<Permission> listPermissions(IdentityContext context, Object resource);

    /**
     * <p>Returns a list of all <link org.picketlink.idm.permission.Permission> for the given <link org.picketlink.idm.model.IdentityType>.</p>
     * @param identityType
     * @return
     */
    List<Permission> listPermissionsByType(IdentityType identityType);
List<Permission> listPermissions(IdentityContext context, IdentityType identityType);

/**
 * Returns a List value containing all permissions for the specified resource, having the specified operation
 * @param resource
 * @param permission
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Object resource, String operation);

/**
 * Returns a List value containing all permissions for all of the specified resource,
 * having the specified operation
 * @param resources
 * @param operation
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Set<Object> resources, String operation);

/**
 * Returns a List containing all the permissions for a resource that has not yet been loaded,
 * using the specified resource class and resource identifier value.
 * @param resourceClass
 * @param identifier
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Class<?> resourceClass, Serializable identifier);

/**
 * Returns a List containing all the permissions for a resource that has not yet been loaded,
 * using the specified resource class and resource identifier value, with the specified operation.
 * @param resourceClass
 * @param identifier
 * @return
 */
List<Permission> listPermissions(IdentityContext context, Class<?> resourceClass, Serializable identifier, String operation);

/**
 * Grants the specified permission
 * @param permission
 * @return
 */
boolean grantPermission(IdentityContext context, IdentityType assignee, Object resource, String operation);

/**
 * Revokes the specified permission
 * @param permission
 * @return
 */
boolean revokePermission(IdentityContext context, IdentityType assignee, Object resource, String operation);

/**
 * Revokes all permissions for the specified resource
 * @param resource
 */
void revokeAllPermissions(IdentityContext context, Object resource);
}

package org.picketlink.idm.permission.acl.spi;

import org.picketlink.idm.PartitionManager;
import org.picketlink.idm.PermissionManager;
import org.picketlink.idm.RelationshipManager;
import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.IdentityPermission;
import org.picketlink.idm.permission.Permission;
import org.picketlink.idm.permission.spi.PermissionVoter;
import java.io.Serializable;
import java.util.List;

/**
 * @author Shane Bryzak
 */
public class PersistentPermissionVoter implements PermissionVoter {

private final PartitionManager partitionManager;

public PersistentPermissionVoter(PartitionManager partitionManager) {
    this.partitionManager = partitionManager;
}

public VotingResult hasPermission(IdentityType recipient, Object resource, String operation) {
    if (recipient == null) {
        throw new IllegalArgumentException("recipient must not be null");
    }
}
List<Permission> permissions = getPermissionManager(recipient).listPermissions(resource, operation);

return checkPermission(recipient, permissions);
}

public VotingResult hasPermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String operation) {
    if (recipient == null) {
        throw new IllegalArgumentException("recipient must not be null");
    }

    List<Permission> permissions = getPermissionManager(recipient).listPermissions(resourceClass, identifier, operation);

    return checkPermission(recipient, permissions);
}

private PermissionManager getPermissionManager(IdentityType recipient) {
    return partitionManager.createPermissionManager(recipient.getPartition());
}

private VotingResult checkPermission(IdentityType recipient, List<Permission> permissions) {
    RelationshipManager relationshipManager = partitionManager.createRelationshipManager();

    for (Permission permission : permissions) {
        if (permission instanceof IdentityPermission) {
            IdentityPermission idPermission = (IdentityPermission) permission;

            if (relationshipManager.inheritsPrivileges(recipient, idPermission.getAssignee())) {
                return VotingResult.ALLOW;
            }
        }
    }

    return VotingResult.NOT_APPLICABLE;
}
public class FuzzyPermission extends Permission {
    private RelationshipCriteria criteria;
    private String assigneeProperty;

    public FuzzyPermission(Object resource, RelationshipCriteria criteria, String assigneeProperty, String operation) {
        super(resource, operation);
        this.criteria = criteria;
        this.assigneeProperty = assigneeProperty;
    }

    public FuzzyPermission(Class<?> resourceClass, Serializable resourceIdentifier, RelationshipCriteria criteria, String assigneeProperty, String operation) {
        super(resourceClass, resourceIdentifier, operation);
        this.criteria = criteria;
        this.assigneeProperty = assigneeProperty;
    }

    public RelationshipCriteria getCriteria() {
        return criteria;
    }

    public String getAssigneeProperty() {
        return assigneeProperty;
    }

    package org.picketlink.idm.permission.acl.spi;
import java.util.HashMap;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
import org.picketlink.idm.permission.annotations.AllowedOperation;
import org.picketlink.idm.permission.annotations.AllowedOperations;

/**
 * Stored resource permissions can either be persisted as a comma-separated list of values, or as a
 * bit-masked numerical value where each bit represents a specific permission for that class. This
 * is a helper class that handles the conversion automatically and presents a unified API for
 * dealing with these persistent actions.
 * @author Shane Bryzak
 */
public abstract class BaseAbstractPermissionHandler implements PermissionHandler {
    private Map<Class<?>, Boolean> usesMask = new HashMap<Class<?>, Boolean>();

    private Map<Class<?>, Map<String, Long>> instanceOperations = new ConcurrentHashMap<Class<?>, Map<String, Long>>();

    private Map<Class<?>, Map<String, Long>> classOperations = new ConcurrentHashMap<Class<?>, Map<String, Long>>();

    private synchronized void initOperations(Class<?> cls) {
        if (!instanceOperations.containsKey(cls)) {
            Map<String, Long> instanceOps = new HashMap<String, Long>();
            Map<String, Long> classOps = new HashMap<String, Long>();

            boolean useMask = false;

            AllowedOperations p = (AllowedOperations) cls.getAnnotation(AllowedOperations.class);

            if (p != null) {
                AllowedOperation[] operations = p.value();
                if (operations != null) {
                    for (AllowedOperation operation : operations) {
                        if (operation.classOperation()) {
                            classOps.put(operation.value(), operation.mask());
                        } else {
                            instanceOps.put(operation.value(), operation.mask());
                        }
                    }
                }
            }
        }
    }
}

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if (operation.mask() != 0) {
    useMask = true;
}
}

// Validate that all actions have a proper mask
if (useMask) {
    Set<Long> masks = new HashSet<Long>();

    Set<String> ops = new HashSet<String>();
    ops.addAll(instanceOps.keySet());
    ops.addAll(classOps.keySet());

    for (String op : ops) {
        Long mask = instanceOps.containsKey(op) ? instanceOps.get(op) : classOps.get(op);
        if (masks.contains(mask)) {
            throw new IllegalArgumentException("Class " + cls.getName() + " defines a duplicate mask for permission operation [" + op + "]");
        }
        if (mask == 0) {
            throw new IllegalArgumentException("Class " + cls.getName() + " must define a valid mask value for operation [" + op + "]");
        }
        if ((mask & (mask - 1)) != 0) {
            throw new IllegalArgumentException("Class " + cls.getName() + " must define a mask value that is a power of 2 for operation [" + op + "]");
        }
        masks.add(mask);
    }

    usesMask.put(cls, useMask);
    instanceOperations.put(cls, instanceOps);
}

protected class PermissionSet {
    private Set<String> permissions = new HashSet<String>();

    private Class<?> resourceClass;

    public PermissionSet(Class<?> resourceClass, String members) {

this.resourceClass = resourceClass;
addMembers(members);
}

public void addMembers(String members) {
    if (members == null) {
        return;
    }

    if (usesMask.get(resourceClass)) {
        // bit mask-based actions
        long vals = Long.valueOf(members);
        Map<String, Long> permissions = instanceOperations.get(resourceClass);
        for (String permission : permissions.keySet()) {
            long mask = permissions.get(permission).longValue();
            if ((vals & mask) != 0) {
                this.permissions.add(permission);
            }
        }
    }
    else {
        // comma-separated string based actions
        String[] permissions = members.split(",");
        for (String permission : permissions) {
            this.permissions.add(permission);
        }
    }
}

public boolean contains(String action) {
    return permissions.contains(action);
}

public PermissionSet add(String action) {
    permissions.add(action);
    return this;
}

public PermissionSet remove(String action) {
    permissions.remove(action);
    return this;
}

public Set<String> getPermissions() {
    return permissions;
}
public boolean isEmpty() {
    return permissions.isEmpty();
}

@Override
public String toString() {
    if (usesMask.get(resourceClass)) {
        Map<String, Long> actions = instanceOperations.get(resourceClass);
        long mask = 0;

        for (String member : permissions) {
            mask |= actions.get(member).longValue();
        }

        return "" + mask;
    } else {
        StringBuilder sb = new StringBuilder();
        for (String member : permissions) {
            if (sb.length() > 0) {
                sb.append(',');
            }
            sb.append(member);
        }
        return sb.toString();
    }
}

public PermissionSet createPermissionSet(Class<?> resourceClass, String members) {
    if (!instanceOperations.containsKey(resourceClass)) {
        initOperations(resourceClass);
    }

    return new PermissionSet(resourceClass, members);
}

@Override
public Set<String> listClassOperations(Class<?> resourceClass) {
    if (!classOperations.containsKey(resourceClass)) {
        initOperations(resourceClass);
    }

    Set<String> permissions = new HashSet<String>();

    for (String permission : classOperations.get(resourceClass).keySet()) {
        permissions.add(permission);
    }
}
return permissions;
}

@Override
public Set<String> listInstanceOperations(Class<?> resourceClass) {
if (!instanceOperations.containsKey(resourceClass)) {
    initOperations(resourceClass);
}

Set<String> permissions = new HashSet<String>();

for (String permission : instanceOperations.get(resourceClass).keySet()) {
    permissions.add(permission);
}

return permissions;
}
}

package org.picketlink.idm.permission.acl.spi;

import java.io.Serializable;
import java.util.Collections;
import java.util.Set;

/**
 * An extremely trivial permission handler that allows permissions to be assigned to String resources
 *
 * @author Shane Bryzak
 */
public class StringPermissionHandler implements PermissionHandler {
    @Override
    public boolean canHandle(Class<?> resourceClass) {
        return String.class.equals(resourceClass);
    }

    @Override
    public Serializable getIdentifier(Object resource) {
        checkResourceValid(resource);
        return (String) resource;
    }

    @Override
    public Class<?> unwrapResourceClass(Object resource) {
        checkResourceValid(resource);
        return String.class;
    }

    private void checkResourceValid(Object resource) {

}
if (!(resource instanceof String)) {
    throw new IllegalArgumentException("Resource \[" + resource + "] must be instance of String");
}

@Override
public Set<String> listClassOperations(Class<?> resourceClass) {
    return Collections.emptySet();
}

@Override
public Set<String> listInstanceOperations(Class<?> resourceClass) {
    return Collections.emptySet();
}

package org.picketlink.idm.permission.spi;
import java.io.Serializable;
import org.picketlink.idm.model.IdentityType;

/**
 * A PermissionVoter may be used to determine access restrictions for application resources. For every
 * permission check the application performs, the hasPermission() method of each known PermissionVoter
 * is invoked. For the permission check to succeed, at least one PermissionVoter must return a result of
 * VotingResult.ALLOW. If any PermissionVoter returns a result of VotingResult.DENY, the
 * permission check is unsuccessful and the user is not allowed to carry out the requested operation.
 * If a PermissionVoter does not explicitly allow or deny the permission, it should return a result of
 * PermissionVoter.NOT_APPLICABLE.
 */

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 * limitations under the License.
 */
public interface PermissionVoter {

    public enum VotingResult {
        ALLOW, DENY, NOT_APPLICABLE
    }

    VotingResult hasPermission(IdentityType recipient, Object resource, String operation);

    VotingResult hasPermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String operation);
}

package org.picketlink.idm.permission;

import java.io.Serializable;

/**
 * Abstract base class representing a specific permission granted for a domain resource. If the actual resource object instance is known
 * then the getResource() method will return a reference to it, otherwise the getResourceClass() and
 * getResourceIdentifier() methods may be used to determine the specific resource that the permission applies to.
 * 
 * It is the responsibility of any subclasses to declare any logic relating to the assignee of the Permission.
 * 
 * @author Shane Bryzak
 */
public abstract class Permission {
private Object resource;

private Class<?> resourceClass;

private Serializable resourceIdentifier;

private String operation;

public Permission(Object resource, String operation) {
    this.resource = resource;
    this.operation = operation;
}

public Permission(Class<?> resourceClass, Serializable resourceIdentifier, String operation) {
    this.resourceClass = resourceClass;
    this.resourceIdentifier = resourceIdentifier;
    this.operation = operation;
}

/**
 * Returns the resource object if known, otherwise returns null. If the resource object is not known, then the
 * getResourceClass() and getResourceIdentifier() methods represent the "coordinates" of the resource.
 *
 * @return Object The resource instance, or null
 */
public Object getResource() {
    return resource;
}

/**
 * Returns the resource class if the actual resource instance is not known, otherwise returns null.
 *
 * @return
 */
public Class<?> getResourceClass() {
    return resourceClass;
}

/**
 * Returns the resource identifier if the actual resource instance is not known, otherwise returns null.
 *
 * @return
 */
public Serializable getResourceIdentifier() {
    return resourceIdentifier;
}
* Returns the permission operation
*
* @return
*/

public String getOperation() {
    return operation;
}

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 */

package org.picketlink.idm.permission.annotations;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;
import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

/**
 * Specifies a list of permission actions for a class
 *
 * @author Shane Bryzak
 */
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface AllowedOperations {
    AllowedOperation[] value() default {};
}
package org.picketlink.idm.permission.annotations;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;
import static java.lang.annotation.ElementType.TYPE;
import static java.lang.annotation.RetentionPolicy.RUNTIME;

/**
 * Specifies an allowable permission operation for the target class, and allows for an optional bit mask
 * value for mapping the permission operation to a persistent store
 *
 * @author Shane Bryzak
 */
@Target({TYPE})
@Documented
@Retention(RUNTIME)
@Inherited
public @interface AllowedOperation {
    /**
     * The operation value
     */
    String value();

    /**
     * The bit mask value representing this operation
     */
    long mask() default 0L;
/**
 * If set to true, this represents a class operation, and not an operation on an instance of the class
 */
boolean classOperation() default false;

1.240 wildfly-request-controller 2.2.0

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1.246 wildfly-clustering-api 10.1.0

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1.247 jackson 1.9.13

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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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### 1.248 batik-anim 1.7+r608262

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1.258 jackson-module-jaxb-annotations 2.7.4
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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6. As an exception to the Sections above, you may also combine or
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of
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1.263 stax-mapper 1.2.0

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1.266 wildfly-embedded 2.2.0

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1.273 artemis-ra 1.1.0.wildfly-017

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1.301 stax 3.1.4

1.301.1 Available under license:

# Jackson JSON processor

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1.302 txw2 2.3.1

1.303 jbosssws-cxf-jaspi 5.1.5

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1.330 netty-xnio-transport 0.1.1

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1.339 cxf-tools-common 3.1.6

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1.343 wildfly-mod-cluster-extension 10.1.0

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1.344 cxf-rt-ws-policy 3.1.6

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1.345 ironjacamar-common-spi 1.3.4

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1.346 jul-to-slf4j 1.7.21

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1.347 commons-codec 1.10

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1.349 spring-messaging 4.3.19

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1.350 guava 18.0

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1.351 jboss-msc 1.2.6

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<project xmlns="http://maven.apache.org/POM/4.0.0"
xmns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <parent>
    <groupId>org.jboss</groupId>
    <artifactId>jboss-parent</artifactId>
    <version>10</version>
  </parent>
</project>
<groupId>org.jboss.msc</groupId>
<artifactId>jboss-msc</artifactId>
<version>1.2.6.Final</version>
<name>JBoss Modular Service Container</name>

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    <version.apiviz>1.3.2.GA</version.apiviz>
    <version.byteman>3.0.0</version.byteman>
    <version.jboss-logmanager>1.4.1.Final</version.jboss-logmanager>
    <version.jboss-logging>3.1.3.GA</version.jboss-logging>
    <version.jboss-logging-processor>1.1.0.Final</version.jboss-logging-processor>
    <version.jboss-modules>1.2.2.Final</version.jboss-modules>
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</properties>

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    <dependency>
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        <artifactId>jboss-logging-processor</artifactId>
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        <scope>provided</scope>
    </dependency>
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        <artifactId>jboss-modules</artifactId>
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<compilerArgument>-AloggingVersion=3.0</compilerArgument>
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<plugin>
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</plugin>
<plugin>
<artifactId>maven-surefire-plugin</artifactId>
<configuration>
<!-- uncomment this to enable byteman rule debug messages
<argLine>--Dorg.jboss.byteman.debug</argLine> -->
<includes>
<include>**/*TestCase.java</include>
</includes>
<excludes>
<exclude>org/jboss/msc/bench/*.*.java</exclude>
</excludes>
</configuration>
</plugin>
</plugins>
</build>
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</property>

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  <value>true</value>
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</systemProperties>
</configuration>

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    <id>rejected-execution-test</id>
    <goals><goal>test</goal></goals>
    <configuration>
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        <property>
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        </property>
        <property>
          <name>java.util.logging.manager</name>
          <value>org.jboss.logmanager.LogManager</value>
        </property>
      </systemProperties>
      <!-- add this to agent parameter list to enable debug .prop:org.jboss.byteman.debug=true -->
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      </includes>
    </configuration>
  </execution>
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    <property>
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      <value>org.jboss.logmanager.LogManager</value>
    </property>
  </systemProperties>
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    <docletArtifact>
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    <header><![CDATA[JBoss Modular Service Container]]></header>
    <footer><![CDATA[JBoss Modular Service Container]]></footer>
    <bottom><![CDATA[Copyright &© 2012 JBoss, a division of Red Hat, Inc.]]></bottom>
    <links>
      <link>http://java.sun.com/javase/6/docs/api/</link>
    </links>
  </configuration>
</plugin>
<plugin>
  <artifactId>maven-jar-plugin</artifactId>
  <configuration>
    <archive>
      <manifestEntries>
1.352 jgroups 3.6.10

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1.358 weld-core-impl 2.3.5

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* holder.
package javax.activation;

import java.util.Map;
import java.util.WeakHashMap;

/**
 * The CommandMap class provides an interface to a registry of
 * command objects available in the system.
 * Developers are expected to either use the CommandMap
 * implementation included with this package (MailcapCommandMap) or
 * develop their own. Note that some of the methods in this class are
 * abstract.
 */
public abstract class CommandMap {
    private static CommandMap defaultCommandMap = null;
    private static Map<ClassLoader, CommandMap> map =
        new WeakHashMap<ClassLoader, CommandMap>();

    /**
     * Get the default CommandMap.
     */
    public static synchronized CommandMap getDefaultCommandMap() {
        if (defaultCommandMap != null)
            return defaultCommandMap;

        // fetch per-thread-context-class-loader default
        ClassLoader tccl = SecuritySupport.getContextClassLoader();
        CommandMap def = map.get(tccl);
        if (def == null) {
            def = new MailcapCommandMap();
            map.put(tccl, def);

            if (defaultCommandMap != null)
                def = defaultCommandMap;

            return def;
        }

        return def;
    }
}

// fetch per-thread-context-class-loader default
ClassLoader tccl = SecuritySupport.getContextClassLoader();
CommandMap def = map.get(tccl);
if (def == null) {
    def = new MailcapCommandMap();
    map.put(tccl, def);

    if (defaultCommandMap != null)
        def = defaultCommandMap;

    return def;
}
** Set the default CommandMap. Reset the CommandMap to the default by
* calling this method with <code>null</code>.
*
* @param commandMap The new default CommandMap.
* @exception SecurityException if the caller doesn't have permission
* to change the default
*/
public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
    SecurityManager security = System.getSecurityManager();
    if (security != null) {
        try {
            // if it's ok with the SecurityManager, it's ok with me...
            security.checkSetFactory();
            // otherwise, we also allow it if this code and the
            // factory come from the same (non-system) class loader (e.g.,
            // the JAF classes were loaded with the applet classes).
            ClassLoader cl = CommandMap.class.getClassLoader();
            if (cl == null || cl.getParent() == null ||
                cl != commandMap.getClass().getClassLoader()) {
                throw ex;
            }
        } catch (SecurityException ex) {
            // remove any per-thread-context-class-loader CommandMap
            map.remove(SecuritySupport.getContextClassLoader());
            defaultCommandMap = commandMap;
        }
    }

    // Get the preferred command list from a MIME Type. The actual semantics
    // are determined by the implementation of the CommandMap.
    *
    * @param mimeType the MIME type
    * @return the CommandInfo classes that represent the command Beans.
    */
    abstract public  CommandInfo[] getPreferredCommands(String mimeType);

    /**
     * Get the preferred command list from a MIME Type. The actual semantics
     * are determined by the implementation of the CommandMap. <p>
     * 
     * The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the list of commands that are returned. The implementation
* in this class simply calls the <code>getPreferredCommands</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param dsa DataSource for the data
* @return the CommandInfo classes that represent the command Beans.
* @since JAF 1.1
*/
public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
    return getPreferredCommands(mimeType);
}

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo objects representing all the commands.
 * @since JAF 1.1
 */
abstract public CommandInfo[] getAllCommands(String mimeType);

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned. The implementation
 * in this class simply calls the <code>getAllCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param dsa DataSource for the data
 * @return the CommandInfo objects representing all the commands.
 * @since JAF 1.1
 */
public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
    return getAllCommands(mimeType);
}

/**
 * Get the default command corresponding to the MIME type.
 *
 * @param mimeType the MIME type
 * @param cmdName the command name
 * @return the CommandInfo corresponding to the command.
 */
abstract public CommandInfo getCommand(String mimeType, String cmdName);

/**
 * Get the default command corresponding to the MIME type. <p>
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the command that is chosen. The implementation
 * in this class simply calls the <code>getCommand</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param cmdName the command name
 * @param ds DataSource for the data
 * @return CommandInfo corresponding to the command.
 * @since JAF 1.1
 */
public CommandInfo getCommand(String mimeType, String cmdName, DataSource ds) {
    return getCommand(mimeType, cmdName);
}

/**
 * Locate a DataContentHandler that corresponds to the MIME type.
 * The mechanism and semantics for determining this are determined
 * by the implementation of the particular CommandMap.
 *
 * @param mimeType the MIME type
 * @param ds DataSource for the data
 * @return DataContentHandler for the MIME type
 */
abstract public DataContentHandler createDataContentHandler(String mimeType);

/**
 * Locate a DataContentHandler that corresponds to the MIME type.
 * The mechanism and semantics for determining this are determined
 * by the implementation of the particular CommandMap. <p>
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the choice of DataContentHandler. The implementation
 * in this class simply calls the <code>createDataContentHandler</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds DataSource for the data
 * @return DataContentHandler for the MIME type
 */
public DataContentHandler createDataContentHandler(String mimeType, DataSource ds) {
    return createDataContentHandler(mimeType);
}

/**
 * Get all the MIME types known to this command map.
 * If the command map doesn't support this operation,
 * null is returned.
 *
 * @return array of MIME types as strings, or null if not supported
 * @since JAF 1.1
 */

public String[] getMimeTypes() {
    return null;
}
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About XmlPull API

It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations. To support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The XmlPull API is in public domain in hope that it will be embraced by Java developers (conformance tests are under LGPL license to minimize risk of incompatible implementations).

1.363 wildfly-webservices-server-integration
10.1.0
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1.372 jbossws-cxf-transports-udp 5.1.5

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.376 artemis-hornetq-protocol 1.1.0.wildfly-017

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The following schemas are included:

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javaee_5.xsd
javaee_web_services_client_1_2.xsd
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Version 2.1, February 1999

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    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
    <xsl:param name="version"/>
    <xsl:param name="product.release.name"/>
    <xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz '" />
    <xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!'">

    <xsl:template match="/">
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            <head>
                <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
                <link rel="stylesheet" type="text/css" href="licenses.css"/>
            </head>
            <body>
                <h2><xsl:value-of select="$product.release.name"/></h2>
                <p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
            </body>
        </html>
    </xsl:template>
</xsl:stylesheet>
<table>
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<tr>
<th>Package Group</th>
<th>Package Artifact</th>
<th>Package Version</th>
<th>Remote Licenses</th>
<th>Local Licenses</th>
</tr>
</thead>
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<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">

<xsl:output method="html" encoding="utf-8" standalone="no" media-type="text/html" />
<xsl:param name="version"/>
<xsl:param name="product.release.name"/>
<xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
<xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ!.'" />

<xsl:template match="/">
    <html>
        <head>
            <meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
            <link rel="stylesheet" type="text/css" href="licenses.css"/>
        </head>
        <body>
            <h2><xsl:value-of select="$product.release.name"/> - Servlet Feature Pack</h2>
            <p>The following material has been provided for informational purposes only, and should not be relied upon or construed as a legal opinion or legal advice.</p>
        </body>
    </html>
</xsl:template>

<xsl:for-each select="licenseSummary/dependencies/dependency">
    <tr>
        <th>Package Group</th>
        <th>Package Artifact</th>
        <th>Package Version</th>
        <th>Remote Licenses</th>
        <th>Local Licenses</th>
    </tr>
</xsl:for-each>

<xsl:call-template name="remap-local-filename">
    <xsl:with-param name="name" select="name" />
</xsl:call-template>
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<xsl:param name="fileList"/>
<xsl:param name="fileSeparator"/>

<xsl:template match="/">
<xsl:call-template name="startDocument"/>
<xsl:call-template name="tokenizeString">
<xsl:with-param name="list" select="$fileList"/>
<xsl:with-param name="delimiter" select="",""/>
</xsl:call-template>
<xsl:call-template name="endDocument"/>
</xsl:template>

<xsl:template name="tokenizeString">
<!--passed template parameter -->
<xsl:param name="list"/>
<xsl:param name="delimiter"/>
<xsl:choose>
<xsl:when test="contains($list, $delimiter)">
<xsl:call-template name="processFile">
<!-- get everything in front of the first delimiter -->
<xsl:with-param name="fileName" select="substring-before($list,$delimiter)"/>
</xsl:call-template>
<xsl:call-template name="tokenizeString">
<!-- store anything left in another variable -->
<xsl:with-param name="list" select="substring-after($list,$delimiter)"/>
<xsl:with-param name="delimiter" select="$delimiter"/>
</xsl:call-template>
</xsl:when>
<xsl:otherwise>
<xsl:choose>
<xsl:when test="$list = "">
<xsl:text/>
</xsl:when>
<xsl:otherwise>
<xsl:call-template name="processFile">
<!-- get everything in front of the first delimiter -->
<xsl:with-param name="fileName" select="$list"/>
</xsl:call-template>
</xsl:otherwise>
</xsl:choose>
</xsl:otherwise>
</xsl:choose>
</xsl:template>

<xsl:template name="substring-after-last">
<xsl:param name="string"/>
<xsl:param name="delimiter"/>
<xsl:choose>
<xsl:when test="contains($string, $delimiter)">
<xsl:call-template name="processFile">
<!-- get everything in front of the first delimiter -->
<xsl:with-param name="fileName" select="substring-before($string,$delimiter)"/>
</xsl:call-template>
<xsl:call-template name="tokenizeString">
<!-- store anything left in another variable -->
<xsl:with-param name="list" select="substring-after($string,$delimiter)"/>
<xsl:with-param name="delimiter" select="$delimiter"/>
</xsl:call-template>
</xsl:when>
<xsl:otherwise>
<xsl:choose>
<xsl:when test="$string = "">
<xsl:text/>
</xsl:when>
<xsl:otherwise>
<xsl:call-template name="processFile">
<!-- get everything in front of the first delimiter -->
<xsl:with-param name="fileName" select="$string"/>
</xsl:call-template>
</xsl:otherwise>
</xsl:choose>
</xsl:otherwise>
</xsl:choose>
</xsl:template>

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1.392 jetty-io 9.3.27.v20190418

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1.393 aspectj-tools 1.9.2

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Julian Morrison &lt;julian@064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.
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- Breitenstrom Christian &lt;C.Breitenstrom@064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.
- Zanotti Mirko &lt;zanotti@064cad.it&gt; - patch to ordered equality test for X509Name.
- Nicola Scendon &lt;nscendon@064babelps.it&gt; - patch to add sorting to CertPath validation.
- Ville Skytt&auml;&lt;ville.skyyta@064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.
- Bruce Gordon &lt;bruce.gordon@064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPCInpuStream.
- Miles Whiteley &lt;miles.whiteley@064savvis.net&gt; - "223" fix for BCPCInpuStream new packets.
- Albert Moliner &lt;amoliner@064evintia.com&gt; - initial TSP implementation.
- Carlos Lozano &lt;carlos@064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.
- Javier Delgadillo &lt;javi@064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.
- Joni Hahkala &lt;joni.hahkala@064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.
- Rolf Schillinger&lt;rolf@064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.
- Sergey Bahtin &lt;Sergey_Bahtin@064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode
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- Franck Leroy &lt;Franck.Leroy&#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.
- Atsuhiko Yamanaka &lt;ynnk&#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
- Nickolay Bolshakov &lt;tyrex&#064reko.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.
- Soren Hilmer &lt;soren.hilmer&#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
- Steve Mitchell &lt;mitchell&#064intertrust.com&gt; - patches for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.
- Dirk Eisner &lt;d.eisner&#064seeburger.de&gt; - initial implementation of ISO 7816-4 padding.
- Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo &lt;matartuso&#064libero.it&gt; - sequence patch to ASN1Dump.
- Andrew Paterson &lt;andrew.paterson&#064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov &lt;vladimir.n.molotkov&#064intel.com&gt; - extensive provider exception handling compliance testing.
- Florin Kollan &lt;adlocflo&#064web.de&gt; - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev &lt;paulvas&#064gmail.com&gt; - Initial GOST28147Mac implementation.
- Tom Pesman &lt;tom&#064tnux.net&gt; - addition of DES-ede encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk &lt;lukasz.b.kowalczyk&#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch &lt;Arndt.Hasch&#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) &lt;bernd.fix&#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee &lt;dmlee&#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung &lt;t2cung&#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz &lt;cschultz&#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee &lt;dmlee&#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.
- Joel Rees &lt;rees&#0644ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau &lt;francesc.sau&#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.
- Larry Bugbee &lt;bugbee&#064mac.com&gt; - initial ECNR implementation.
- Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
Brian O'Rourke &lt;brianorourke@#064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESeDe-CMAC to JCE provider.

David Josse &lt;david.josse@#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrntan@#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Kejon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

Jörg Eichhorn &lt;eichhorn@#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stefan@#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@#064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;pasi.eronen@#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.

encode method.</li>
<li>Maria Ivanova &lt;maria.ivanova@#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
<li>Armin H&auml;berling &lt;arminha@#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder &lt;mschilder@#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vouch &lt;xavier@#064brittanysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews@#064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;reikomusha@#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info@#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rjoaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juilisdavies@#064gmail.com&gt; - additional modes and algorithm support in PEMReader</li>
<li>Matthias &lt;g@#064rtnner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&auml;thler &lt;olga.kaethler@#064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&uuml;ria Mar&iacute; &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js@#064ti.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike@#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposed.</li>
<li>Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;ptknopp@#064mnt.de&gt; - fix for named curve recognition in ECOST key generation.</li>
<li>Jakub Gwozd &lt;gwozdziu@#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPMCac.</li>
<li>Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding
property check.</li>
<li>J Ross Nicoll &lt;jrn#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
<li>Roeolof Naude &lt;roelof.naude#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;лемaymd#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].</li>
<li>Michael Schoene &lt;michael#064sgrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Jon Larrañaga#:aga &lt;ilarra#064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns#064positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic#064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul Fitzpatrick &lt;bouncycastle_pfitz#064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23#064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;pmahenriques#064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;job#064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.</li>
<li>Richard Farr &lt;rfarr.se#064gmail.com&gt; - initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione#064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani#064sogei.it&gt; - patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;rt737lundgren#064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil#064centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a#064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hsrawat#064yahoo.com&gt; - fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;rlindemann#064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
Alex Artamonov &lt;alexart.home#064gmail.com&gt; name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_h_cole#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom#064atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfa#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilaring &lt;markus#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith#064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio#064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492 [#BJA-291]).

Wayne Grant &lt;waynedgrant#064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis &lt;info#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan#064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo#064binternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;i.matheis#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;messche#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfmalif#064hotmail.com&gt; removal of unnecessary limit in CMSCertInfoParser.

Alfonso Massa &lt;alfonso.massa#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo#064unicaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden#064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev#064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking#064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;rbernd#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid#064tngeotech.com&gt; Additional expiry time check in PGPPublicKeys.
Phil Steitz &lt;phil.steitz&#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.


Petr Petrov &lt;p.petrov&#064bbers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr&#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implemements of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson&#064quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj&#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth&#064WPECGLtYbVi8RI6Y7Vzl2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny&#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes&#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b&#064yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc&#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel&#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington&#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSD BCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad&#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin&#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d&#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy&#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes&#064064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirsch &lt;dev&#064064daniel-hirsch.de.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome&#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.
Matti Aarnio &lt;matti.aarnio&#064;methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi&#064;akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller&#064;064sage.de.gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts&#064;064gmail.com.gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov&#064;064gmail.com.gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86&#064;064gmail.com.gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc&#064;064gmail.com.gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis&#064;064ut.ee.gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb&#064;064riseup.net.gt; initial implementation of Shacal2.

Roberto Tyyle &lt;tyyle&#064;wdick.de.gt; further work on completing gradle build.

Waldemar Dick &lt;wdick&#064;064devmune.de.gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward&#064;064pdflabs.com.gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin&#064;064google.com.gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;g soc.student&#064;064gmail.com.gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter&#064;064iaik.tugraz.at.gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller&#064;064gmail.com.gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli&#064;064arago.de.gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt&#064;064cryptovision.com.gt; Initial support for encodable state message digests.

Robert Bushman &lt;bouncycastle&#064;064traxel.com.gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;aarts&#064;064risecure.com.gt; updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;https://github.com/franziskuskiefer.gt; initial implementation of Cramer-Shoup.

KB Sriram &lt;mail_kb&#064;yahoo.com.gt; testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco&#064;064nightlabs.de.gt; Reported verification bug in GenericSigner.

Martin Schaef &lt;https://github.com/martinschaeft.gt; contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz.gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;tosias.wich&#064;064ecsec.de.gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens &lt;hauke&#064;064hauke-m.de.gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz&#064;064galois.com.gt; Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitzka &lt;tkj.kapitzka&#064;064schwarze-allianz.de.gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan&#064;064primekey.se.gt; update to RFC 6960 for OCSPObjectIdentifiers.
Fix to encoding of EC private keys to ensure encoding matches order length.

Contributions to BCrypt/OpenBSD BCrypt, original version of Blake2bDigest.

Documentation fixes to X9ObjectIdentifiers.

Correction to notification/error message handling in SignedMailValidator.

Fix to counter signature SID in CMSSignedData.

Initial CertPathLoopTest for demonstrating stack overflow issue.

Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Refinements to cert path validation (authority key addition, certificate order preservation).

Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Fix to S2K usage of none on changing passwords on keys without passwords originally.

Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.


Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Fix for IES data length check on decryption.

Fix to cast issue in getOutputSize() for ECIES.

Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Fixed bugs in TlsUtils read methods [#BJA-592].

Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.

Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Patch to make cipher/hash/signature name methods in PGP internal API public.

Initial implementation of GOST R 34.11-2012.
William Glanton &lt;wglanton77@gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
<li>jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
<li>Joseph Naegele &lt;jnaegele@604grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
<li>Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNafUtil.</li>
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
<li>Gorka Irazoqui &lt;girazoki@604wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@604veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
<li>Alexandr Krivoshta &lt;wipe@604ya.ru&gt; N4 calculation fix to GOFB mode.</li>
<li>Artem Storozhuk &lt;storozh72@604gmail.com&gt; N4 calculation fix to GOFB mode.</li>
<li>Na Yu &lt;na.yu@604samsung.com&gt; Constructor patches to CMC PKIData.</li>
<li>Evangelos Karatsiolis &lt;ekaratsiolis@604mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@604stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>
<li>Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
<li>Artem Storozhuk &lt;storozh72@604gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
<li>Andreas Glaser &lt;andreas.glaser@604gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.</li>
<li>Scott Woodward &lt;scott@604bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Straw &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>
<li>chris mccown &lt;0xchrismccown@604gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;ident&gt; identification of M-R test issue on higher certainty values in RSA
key pair generation.</li>
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt;; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
<li>Adam Vartanian &lt;https://github.com/floooy&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.</li>
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BePublicKeyDataDecryptorFactory. Additional tests on PGP keyring generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu@gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
<li>Andreas Gadermaier &lt;up.gadermaier@064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java characters.
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1.408 jackson-jaxrs-json-provider 2.7.4
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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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1.409 artemis-amqp-protocol 1.1.0.wildfly-017

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1.410 wildfly-deployment-scanner 2.2.0

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1.411 java-jwt 3.8.3

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1.412 google-http-client 1.15.0

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1.426 spring-framework 4.3.19

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1.428 httpcomponents-core 4.3.3

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1.430 hibernatejava 5.0.10

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/concurrency-api
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### 1.432 spring-aspects 4.3.19

### 1.433 xnio-api 3.4.0

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1.466 jaeger-core 0.23.0

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1.467 resteasy-yaml-provider 3.0.19

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1.468 wildfly-clustering-common 10.1.0

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1.470 resteasy-jsapi 3.0.19

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    analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
    analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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1.488 restat-integration 5.3.3

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package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;
/**
 * 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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/**
 * 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;
    }
}
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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#end
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package org.apache.cxf.rs.security.oauth2.common;

import java.io.Serializable;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */
public class Permission implements Serializable {
    private static final long serialVersionUID = 8988574955042726083L;
    private String permission;
    private String description;
    private boolean isDefault;
    private boolean invisibleToClient;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    /**
     * Gets the permission description
     * @return the description
     */
    public String getDescription() {
        return description;
    }

    /**
     * Sets the permission description
     * @param description
     */
    public void setDescription(String description) {
        this.description = description;
    }

    /**
     * Get the permission value such as "read_calendar"
     * @return the value
     */
    public String getPermission() {
        return permission;
    }
}
/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property to optimize the way the user selects the
 * scopes.
 * For example, assume that read’, ’add’ and ’update’ scopes are supported and the
 * ’read’ scope is always allocated. This can be presented at the UI level as follows:
 * the read-only check-box control will represent a ’read’ scope and a user will be able to
 * optionally select ’add’ and/or ’update’ scopes, in addition to the default ’read’ one.
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

public boolean isInvisibleToClient() {
    return invisibleToClient;
}

/**
 * Set the visibility status; by default all the scopes approved by a user can
 * be optionally reported to the client in access token responses. Some scopes may need
 * to stay ’invisible’ to client.
 * @param invisibleToClient
 */
public void setInvisibleToClient(boolean invisibleToClient) {
    this.invisibleToClient = invisibleToClient;
}

@Override
public boolean equals(Object object) {
    if (!(object instanceof Permission)) {
        return false;
    }
    Permission that = (Permission)object;
    return equals(that);
}
if (this.permission != null && that.permission == null
    || this.permission == null && that.permission != null
    || this.permission != null && !this.permission.equals(that.permission)) {
    return false;
}

if (this.description != null && that.description == null
    || this.description == null && that.description != null
    || this.description != null && !this.description.equals(that.description)) {
    return false;
}

if (this.invisibleToClient != that.invisibleToClient || this.isDefault != that.isDefault) { /*NOPMD*/
    return false;
}

return true;
}

@Override
public int hashCode() {
    int hashCode = 17;
    if (permission != null) {
        hashCode = 31 * hashCode + permission.hashCode();
    }
    if (description != null) {
        hashCode = 31 * hashCode + description.hashCode();
    }
    hashCode = 31 * hashCode + Boolean.valueOf(invisibleToClient).hashCode();
    hashCode = 31 * hashCode + Boolean.valueOf(isDefault).hashCode();

    return hashCode;
}

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<meta name="generator" content="HTML Tidy, see www.w3.org"/>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1"/>
<link rel="stylesheet" type="text/css"/>

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1.521 jackson-jaxrs-json-provider 2.7.9

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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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See [http://members.unine.ch/jacques.savoy/clef/index.html](http://members.unine.ch/jacques.savoy/clef/index.html).

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1.559 opensaml-java 3.1.1

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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- Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at a href="http://voxeolabs.com="/http://voxeolabs.com</a>
- a href="https://www.coreinfrastructure.org="/Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.
- Additional CertPath testing and validation data from the CertPath testing tool developed by a href="https://www.cryptosource.de="/cryptosource GmbH</a> and a href="https://www.mtg.de="/media Transfer AG</a> both located in Darmstadt, Germany.
- a href="https://www.microfocus.com="/Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.
People

Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation

Michael Lee &lt;yfl&#064;mira.net&gt; - initial RC6 implementation, MD2 implementation

Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.

Brett Sealey &lt;brtts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).

Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.

Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).

Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Uwe Guenther &lt;uwe&#064;cscc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

Markus Bradtke &lt;mab&#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.

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Stefan K&ouml;pell &lt;sk13&#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see http://sourceforge.net/projects/jcf/

Carmen Bastiaans &lt;cbastiaa&#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tommasg&#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Eugen Kuleshov &lt;euxx&#064;hotmail.com&gt; - optimisations for Blowfish, assistance with...
Open Source Used In ejbca Wolverine

PKCS12/keytool interoperability.

<li>Megan Woods &lt;meganwoods@sekurafile.com&gt; - initial implementation of ECIES.</li>

<li>Christian Geuer-Pollmann &lt;geuerp@apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>

<li>Michael M&amp;#252;hle &lt;mlmouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>

<li>Michael Mansell &lt;michael.mansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.</li>

<li>Eike Recker &lt;eike.recker@nixm.de&gt; - fixing null pointer exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>

<li>Chris Southern &lt;CSouthern@bash.org&gt; - fixing misuse of specified provider in the PKCS10 certificate request class.</li>

<li>Sidney Markowitz &lt;sidney@nixm.de&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>

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<li>Jess Garms &lt;jgarms@yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.</li>

<li>Mike Bremford &lt;mike@big.faceless.org&gt; - contributing the initial PKCS7 implementation.</li>

<li>Shankar Srinivasan &lt;ssr002@yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>

<li>Stef Houben &lt;ilsesteef@nixm.de&gt; - adding Montgomery multiplication to the BigInteger class.</li>

<li>Klaudiusz Ciosk &lt;kciok@nixm.de&gt; - improving the compatibility of the SMIME package with the Sun JCE.</li>

<li>Thomas Houtekier &lt;Thomas.Houtekier@tectrade.net&gt; - S/Mime testing and debugging. Interoperability with BizTalk.</li>

<li>Don Hillsberry &lt;dhillsber@nixm.de&gt; - S/Mime testing and debugging.</li>

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<li>Joel Hockey &lt;joel.hockey@nixm.de&gt; - initial work on the openssl PEM processing.</li>

<li>John Steenbruggen &lt;JohnS@nixm.de&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>

<li>Justin Chapweske &lt;justin@nixm.de&gt; - ordering patch for Tiger message digest.</li>

<li>John Serocek &lt;jserocek@nixm.de&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.
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<li>Andre Wehnert &lt;aw5@#064:mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono &lt;lo_iacono@#064:nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
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<li>Andre Wehnert &lt;aw5@mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Laurence Ioannou &lt;lo_iacono@#064:nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
<li>Sebastian Claus &lt;sc2@#064:inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Giulia Bielza &lt;nicolas.bielza@#064:alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
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<li>Graham Coles &lt;graham.coles@#064:retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>Jörn von Kattchee &lt;J.Kattchee@#064:seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
<li>Mateo Artuso &lt;matartuso@#064:libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian@#064:extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sossenscheidt &lt;eso@#064:esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>Jörn Schwarze &lt;JJS Schwarz@#064:ulc.de&gt; - Locale fix for the clean room JCE.</li>
<li>Bryan Lovquist &lt;bbkl@#064:cs.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem.Portnoy@#064:ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
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<li>Joe Cohen &lt;jcohen@#064:forum.sys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
<li>Chris Long &lt;aclong@#064:ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
<li>Hes Siemelink &lt;hes@#064:izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
<li>Stefan Puiu &lt;stefanpuiu@#064:yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
<li>Kaiser Yang &lt;kaiseryang@#064:yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
<li>Jiri Urbanec &lt;jiri.urbanec@#064:logicacmg.com&gt; - check to fix defect in DERBMPString.equals().</li>
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<li>Michal Dvorak &lt;m_dvorak@pristx.com&gt; - getNextUpdate patch for OCSP SingleResp.</li>
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<li>Olivier Refalo &lt;Olivier_Refalo@pristx.com&gt; - null pointer exception fix for JDK 1.3 CMS/SignedData objects.</li>

Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
<li>Brien Oberstein &lt;brien@pristx.com&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>
<li>Ian Haywood &lt;ian@pristx.com&gt; - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards &lt;j34gull@pristx.com&gt; - initial support for reading multiple rings from a PGP key file.</li>
<li>Andrew Thornton &lt;andrew@pristx.com&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
<li>Gregor Leander &lt;gl@pristx.com&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers@pristx.com&gt; - help with RipeMD320 implementation.</li>
<li>Peter Sylvester &lt;Peter.Sylvester@pristx.com&gt; - improvements to the ASN.1 BasicConstraints object.</li>
<li>Doug &lt;ummmmm@pristx.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
<li>Chuck Staes &lt;chstaes@pristx.com&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer &lt;wdittmer@pristx.com&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto &lt;lperez@pristx.com&gt; - patch to use of BitString in X.500 name.</li>
<li>James Wright &lt;James.Wright@pristx.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim@pristx.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;mh@pristx.com&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;psai@pristx.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@pristx.com&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;lars@pristx.com&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen@pristx.com&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@pristx.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pd@pristx.com&gt; - patch to CMS/SignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filsa@pristx.com&gt; - patch to fix overread issue in
Open Source Used In ejbca Wolverine

<li>Alpesh Parmar &lt;alps&#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
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<li>Nicola Scendoni &lt;nsendoni&#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
<li>Ville Skyttä &lt;ville.skytta&#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
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<li>Carlos Lozano &lt;carlos&#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javidevolvia.comorg&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
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<li>Rolf Schillinger &lt;rolf&#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey.Bahtin&#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOBF) and GOST-3411.</li>
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<li>Atsuhiko Yamanaka &lt;ymnk&#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nickolay Bolshakov &lt;tyrex&#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer&#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell&#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>
<li>Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>
<li>Dirk Eisner &lt;D.Eisner&#064tigerprivacy.com&gt; - initial implementation of ISO 78164-4 padding.</li>
<li>Julien Pasquier &lt;JulienPasquier&#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>
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David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan@gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christianati, &lt;a href="http://www.keyon.ch"&gt;http://www.keyon.ch&lt;/a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@gmail.com&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.
<li>Jörg Eichhorn &lt;j.eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohme &lt;widerstand&#064online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>
<li>Jörg Eichhorn &lt;j.eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs. Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>
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<li>John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen &lt;stneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>
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<li>Pasi Eronen &lt;pasi.eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Maria Ivanova &lt;m.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
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<li>Marius Schilder &lt;m.schilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
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<li>Erik Tews &lt;e_tews&#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
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<li>Frank Cornelis &lt;info&#064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;r.joaquim&#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;d.stacey&#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list&#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.
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Matthias &lt;g&#064064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&amp;uuml;bler &lt;olga.kaehler&#064consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

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Janis Schuller &lt;js&#064064tzi.de&gt; - addition of NotationData packets for OpenPGP.

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Ramon Keller &lt;ramon.keller&#064064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark&#064064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

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Tal Yacobi &lt;tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064gmail.comt&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko&#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn&#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz&#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini&#064064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude&#064epiuse.com&gt; - patch for TLS client to send empty client cert in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck&#064064signatureen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd&#064064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale&#064064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;michael&#064064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setAttribute(ExtendedPKIXParameters.setTrustedACIssuers()), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larra&amp;ntilde;aga &lt;ilarra&#064064s21sec.com&gt; - fix to default partial packet generation in
BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; port for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>
<li>Cagdas Cirit &lt;cagdascirit@064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>
<li>Harakiri &lt;harakiri_23@064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>
<li>Pedro Henriques &lt;p.mahenriques@064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.</li>
<li>Lothar Kimmeringer &lt;job@064kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>
<li>Richard Farr &lt;farr.se@064gmail.com&gt; initial SRP-6a implementation.</li>
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.</li>
<li>Robin Lundgren &lt;r737lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>
<li>Andreas Antener &lt;antener_a@064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
<li>Harendra Rawat &lt;hrswat@064yahoo.com&gt; fix for BERConstructedOctetString.</li>
<li>Rolf Lindemann &lt;linnedmann@064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>
<li>Alex Artamonov &lt;alextart.home@064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>
<li>Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>
<li>Chris Cole &lt;chris_hCole@064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>
<li>Tomas Krivanek &lt;tom@064attack.cz&gt; added checking of Sender header to SignedMailValidator.</li>
<li>Michael &lt;emfau@064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>
<li>Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>
<li>Markus Kil&aring;ngs &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>
<li>Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>
<li>Michael Smith &lt;msmith@064cbco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
<li>Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.</li>
<li>Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492)
Wayne Grant &lt;waynedgrant#064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.

Frank Cornelis &lt;info#064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittbener &lt;jan#064dittbener.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo#064bitinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;ivo.matheis#064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;neschce#064google.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alfilmalf#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso massa#064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo#064ununicaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;J.Sikocinski#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;jhudolejev#064gmail.com&gt; JacobDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden#064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev#064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael laiking#064keynectis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.

Bernd &lt;bernd#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid#064ntgtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.


Petar Petrov &lt;p.petrov#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr#064gmail.com&gt; Initial implementation of ephemeral key support for JES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson#quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth#064WPECGLyYbVl8Rl6Y7VzLvd2EUVW9v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for Aead.

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay &lt;pilf_b@yahoo.com&gt; Initial implementation of J-PAKE. 

Brian Carlstrom &lt;bc@044carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lind&eacute;n Borell &lt;samuel@primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner@certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington@orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20. Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Nokeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin@044xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;5555d@044gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy@gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@044blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev@044daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@044gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;044matics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Babak Najafi &lt;bnajafi@044akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller@044sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@044gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;044ivanov@044gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;044grasso86@044gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;044gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis@044ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb@044riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;Roberto Tyley &gt; further work on completing gradle build.
<li>Waldemar Dick &lt;wdick@devmue.de&gt;: code improvement in x500 ASN.1 package.</li>
<li>Sid Steward &lt;sid.steward@pdflabs.com&gt;: code improvements to ASN1Boolean.</li>
<li>Alex Klyubin &lt;klyubin@64google.com&gt;: AlgorithmParameters check for EC key agreement.</li>
<li>Jonathan Gillett &lt;gsoc.student@64gmail.com&gt;: Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter@tugraz.at&gt;: Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller@64gmail.com&gt;: initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli &lt;ehli@64arago.de&gt;: Additional support for BSI plain ECDSA in the provider.</li>
<li>Daniel Heldt &lt;Daniel.Heldt@64cryptovision.com&gt;: Initial support for encodable state message digests.</li>
<li>Robert Bushman &lt;bounceycastle@64traxel.com&gt;: Clean up of DirectKeySignature example.</li>
<li>Maurizio Aarts &lt;aarts@64risecure.com&gt;: updated to KDF generator to follow NIST SP 800-108.</li>
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt;: initial implementation of Cramer-Shoup.</li>
<li>KB Sriram &lt;mail_kb@yahoo.com&gt;: testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze &lt;marco@64nightlabs.de&gt;: Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer &lt;https://github.com/martinschaefer&gt;: contributed a code-cleanup patch.</li>
<li>dstutz &lt;https://github.com/dstutz&gt;: added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
<li>Tobias Wich &lt;tobias.wich@64csec.de&gt;: Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens &lt;hauke@64hauke-m.de&gt;: TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman &lt;dmz@64galois.com&gt;: Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitza &lt;jl.kapitza@64schwarze-allianz.de&gt;: Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund &lt;johan@64primekey.se&gt;: update to RFC 6960 for OCSPObjectIdentifiers.</li>
<li>nikosn &lt;https://github.com/nikosn&gt;: Fix to encoding of EC private keys to ensure encoding matches order length.</li>
<li>Axel von dem Bruch &lt;axel-vdb@64riseup.net&gt;: Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
<li>Derek Atkins &lt;derek@64ihtfp.com&gt;: Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto@64halicky.sk&gt;: Correction to notification/error message handling in SignedMailValidator.</li>
<li>Thomas Belot &lt;thomas.belot+BC@64gmail.com&gt;: initial CertPathLoopTest for demonstrating stack overflow issue.</li>
<li>Rich DiCroce &lt;https://github.com/rdicroce&gt;: Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
<li>BJ&ouml;nrl Kautler &lt;https://github.com/Vampire&gt;: Refinements to cert path validation (authority key addition, certificate order preservation).</li>
<li>Dominik Sch&uuml;mmler &lt;https://github.com/dschuermann&gt;: method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
<li>Michael &lt;MSKnete@64web.de&gt;: initial fix for bitStrength issue for OpenPGP EC keys, correction for
Tobias Wagner &lt;tobias.wagner@n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;sgiro@064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen@bouncycastle#064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles@064opentrust.com&gt; Fix for IES data length check on decryption.

Niko &lt;nink95@064gmail.com&gt;; fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lu&uuml;kas Deputat &lt;lu&uuml;kas.deputat@064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjecFactory to handle stream packets at start of iterated data.

Andr&eacute;eacute; Berenguel &lt;https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.

Slawomir Jaroszewski &lt;https://github.com/slaweckjaroszewski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.

William Glanton &lt;wlglanton77@064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].

jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle &lt;nnaegle@064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.

Andrew Bonventre &lt;https://github.com/andybons&gt; NullPointer patch for WNAfUtil.

The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexander Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storojs72@064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@064mg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for
McElieceCCA2PrivateKeyParameters.

- mtausig [https://github.com/mtausig]: JavaDoc fix for MCSEncryptedDataGenerator.
- Sebastian Wolfgang Roland [sebastianwolfgang.roland@stud.tu-darmstadt.de]: Initial XMSS/XMSSMT implementation.
- didisoft [https://github.com/didisoft]: test code for PGP signature removal involving user ids.
- Mike Safonov [https://github.com/MikeSafonov]: initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
- Artem Storozhuk [storozhuk72@#064gmail.com]: initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
- Sebastian Wolfgang Roland [sebastianwolfgang.roland@stud.tu-darmstadt.de]: initial XMSS/XMSSMT implementation.
- codeborne [https://github.com/cbxp]: patch to correct OIDs used in public key digest parameters for ECGOST-2012.
- FauxFaux [https://github.com/FauxFaux]: patch for JDK 1.9 update to DRBG.java.
- 4garbage [https://github.com/4garbage]: patch to allow GOST3410-94 private keys encoded as integers.
- ekszz &lt;https://github.com/ekszz&gt;: corrections to SM2 signer to include default identity value.
- jminer &lt;https://github.com/jminer&gt;: fix to Blake2b for hashes in range of 2**64-127 to 2**64.
- str4d [https://github.com/str4d]: initial implementation of Blake2s.
- Scott Woodward [scott@#064bitconsulting.com]: performance fixes for CTRSP800DRBG.
- David Straw [https://github.com/isomarcte]: fix for off by one error in SCRYPT bounds checking.
- chris mccown [0xchrismccown@#064gmail.com]: identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).
- ZZMarquis [https://github.com/ZZMarquis]: offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.
- Andreas Kretshmer [https://github.com/Akretsch]: NPE fix for CertTemplate.getVersion().
- Armin Lunkeit, Michael Tautenhahn [https://github.com/nros]: update to OpenPGP package to handle a broader range of EC curves.
- catbref [https://github.com/catbref]: Additional EC Key Agreement algorithms in support of German BSI TR-03111.
- Paul Schaub [https://github.com/vanitasvitae]: bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.
- Nick of Nexxar [https://github.com/nros]: update to OpenPGP package to handle a broader range of EC curves.
- cethref [https://github.com/cathref]: sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).
- gerlion [https://github.com/gerlion]: detection of concurrency issue with pre-1.60 EC math library.
OAEPEncoding and RSACoreEngine.

Andreas Gadermaier &lt;up.gadermaier&#064;gmail.com&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;tony.washer&#064;yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.


Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.

Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.

Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.

Haemin Yoo &lt;https://github.com/yoohaemin&gt;avadocs fixes.

Antoine Touilme &lt;https://github.com/atouilme&gt; Initial implementation of EthereumIESEngine.

Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

Moses Palm&eacute;e;e; r, TrueSec &lt;Henrik.Palmer#064truesec.se&gt; Additional improvements to constant time comparisons.

Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

Gaylor Bosson &lt;https://github.com/Gaylthoienjel&gt; Initial implementation of Blake2xs.

gaelalalire &lt;https://github.com/gaelalalire&gt; Patch for unprotected PGP private keys as SExpr.

im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.

Ugochukwu Mmaduekwe &lt;https://githubcom/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.

Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

Tobias Ospe&t;lt;https://github.com/tobias#064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.
1.594 geronimowsmetadata 1.1.3
1.594.1 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.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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1.604 aspect-j 1.8.13

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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.

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1.614 jboss-dmr 1.3.0

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1.644 metrics-jetty 3.1.0

1.645 annotation-indexer 2.0.2

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1.646 jtoml 1.0.0

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1.647 wildfly-clustering-web-api 10.1.0

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1.648 proton-jms 0.8

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freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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1.658 jboss-servlet-api-3-1-spec 1.0.0

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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