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1.5 xalan 2.7.2

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1.8 cxf-rt-javascript 2.7.3

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1.9 jackson-jaxrs-base 2.4.0

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1.11 maven-model 2.0.8

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```
/*
 * $Id$
 */

package org.apache.maven.model;

/**
 *
 * Description of a person who has contributed to the
 * project, but
 * who does not have commit privileges. Usually, these
 * contributions come in the form of patches submitted.
 *
 * @version $Revision$ $Date$
```

```

*/
public class Contributor implements java.io.Serializable {

    //-----/
    //- Class/Member Variables -/
    //-----/

    /**
     * Field name
     */
    private String name;

    /**
     * Field email
     */
    private String email;

    /**
     * Field url
     */
    private String url;

    /**
     * Field organization
     */
    private String organization;

    /**
     * Field organizationUrl
     */
    private String organizationUrl;

    /**
     * Field roles
     */
    private java.util.List roles;

    /**
     * Field timezone
     */
    private String timezone;

    /**
     * Field properties
     */
    private java.util.Properties properties;

```

```

//-----/
//- Methods -/
//-----/

/**
 * Method addProperty
 *
 * @param key
 * @param value
 */
public void addProperty(String key, String value)
{
    getProperties().put( key, value );
} //-- void addProperty(String, String)

/**
 * Method addRole
 *
 * @param string
 */
public void addRole(String string)
{
    getRoles().add( string );
} //-- void addRole(String)

/**
 * Get
 *
 *      The email address of the contributor.
 *
 *
 */
public String getEmail()
{
    return this.email;
} //-- String getEmail()

/**
 * Get
 *
 *      The full name of the contributor.
 *
 *
 */
public String getName()
{
    return this.name;
}

```

```

} //-- String getName()

/**
 * Get
 *
 *      The organization to which the contributor
 * belongs.
 *
 *
 */
public String getOrganization()
{
    return this.organization;
} //-- String getOrganization()

/**
 * Get
 *
 *      The URL of the organization.
 *
 *
 */
public String getOrganizationUrl()
{
    return this.organizationUrl;
} //-- String getOrganizationUrl()

/**
 * Method getProperties
 */
public java.util.Properties getProperties()
{
    if ( this.properties == null )
    {
        this.properties = new java.util.Properties();
    }

    return this.properties;
} //-- java.util.Properties getProperties()

/**
 * Method getRoles
 */
public java.util.List getRoles()
{
    if ( this.roles == null )
    {
        this.roles = new java.util.ArrayList();
    }
}

```

```

    }

    return this.roles;
} //-- java.util.List getRoles()

/**
 * Get
 *
 * The timezone the contributor is in. This is a
 * number in the range -11 to 12.
 *
 */
public String getTimezone()
{
    return this.timezone;
} //-- String getTimezone()

/**
 * Get
 *
 * The URL for the homepage of the contributor.
 *
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Method removeRole
 *
 * @param string
 */
public void removeRole(String string)
{
    getRoles().remove( string );
} //-- void removeRole(String)

/**
 * Set
 *
 * The email address of the contributor.
 *
 * @param email

```

```

*/
public void setEmail(String email)
{
    this.email = email;
} //-- void setEmail(String)

/**
 * Set
 *
 *      The full name of the contributor.
 *
 *
 *
 * @param name
 */
public void setName(String name)
{
    this.name = name;
} //-- void setName(String)

/**
 * Set
 *
 *      The organization to which the contributor
 * belongs.
 *
 *
 *
 * @param organization
 */
public void setOrganization(String organization)
{
    this.organization = organization;
} //-- void setOrganization(String)

/**
 * Set
 *
 *      The URL of the organization.
 *
 *
 *
 * @param organizationUrl
 */
public void setOrganizationUrl(String organizationUrl)
{
    this.organizationUrl = organizationUrl;
} //-- void setOrganizationUrl(String)

```

```

/**
 * Set
 *
 * Properties about the contributor, such as an
 * instant messenger handle.
 *
 *
 *
 * @param properties
 */
public void setProperties(java.util.Properties properties)
{
    this.properties = properties;
} //-- void setProperties(java.util.Properties)

/**
 * Set
 *
 * The roles the contributor plays in the project.
 * Each role is
 * described by a <code>role</code> element, the
 * body of which is a
 * role name. This can also be used to describe the
 * contribution.
 *
 *
 *
 * @param roles
 */
public void setRoles(java.util.List roles)
{
    this.roles = roles;
} //-- void setRoles(java.util.List)

/**
 * Set
 *
 * The timezone the contributor is in. This is a
 * number in the range -11 to 12.
 *
 *
 *
 * @param timezone
 */
public void setTimezone(String timezone)
{
    this.timezone = timezone;
}

```

```

} //-- void setTimezone(String)

/**
 * Set
 *
 *      The URL for the homepage of the contributor.
 *
 *
 *
 * @param url
 */
public void setUrl(String url)
{
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding )
{
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding()
{
    return modelEncoding;
}}
// -----
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// -----

```

Maven Model

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```
/*
```

```
* $Id$
```

```
*/
```

```
package org.apache.maven.model;
```

```
/**
```

```
*
```

```
*
```

```
* Describes the licenses for this project. This is used
```

```
* to generate
```

```
* the license page of the project's web site, as well as
```

```
* being taken into
```

```
* consideration in other reporting and validation. The
```

```
* licenses listed for
```

```
* the project are that of the project itself, and not of
```

```
* dependencies.
```

```
*
```

```
*
```

```
*
```

```
* @version $Revision$ $Date$
```

```
*/
```

```
public class License implements java.io.Serializable {
```

```
    //-----/
```

```
    //- Class/Member Variables -/
```

```
    //-----/
```

```
/**
```

```
* Field name
```

```
*/
```

```
private String name;
```

```
/**
```

```
* Field url
```

```
*/
```

```
private String url;
```

```
/**
```

```
* Field distribution
```

```
*/
```

```
private String distribution;
```

```
/**
```

```

* Field comments
*/
private String comments;

//-----/
// - Methods -/
//-----/

/**
 * Get
 *      Addendum information pertaining to this license.
 *
 */
public String getComments()
{
    return this.comments;
} //-- String getComments()

/**
 * Get
 *
 *      The primary method by which this project may be
 * distributed.
 *      <dl>
 *          <dt>repo</dt>
 *          <dd>may be downloaded from the Maven
 * repository</dd>
 *          <dt>manual</dt>
 *          <dd>user must manually download and install
 * the dependency.</dd>
 *      </dl>
 *
 */
public String getDistribution()
{
    return this.distribution;
} //-- String getDistribution()

/**
 * Get
 *
 *      The full legal name of the license.
 *
 */
public String getName()

```

```

{
    return this.name;
} //-- String getName()

/**
 * Get
 *
 *     The official url for the license text.
 *
 */
public String getUrl()
{
    return this.url;
} //-- String getUrl()

/**
 * Set
 *     Addendum information pertaining to this license.
 *
 * @param comments
 */
public void setComments(String comments)
{
    this.comments = comments;
} //-- void setComments(String)

/**
 * Set
 *
 *     The primary method by which this project may be
 * distributed.
 *     <dl>
 *         <dt>repo</dt>
 *         <dd>may be downloaded from the Maven
 * repository</dd>
 *         <dt>>manual</dt>
 *         <dd>user must manually download and install
 * the dependency.</dd>
 *     </dl>
 *
 *
 *
 * @param distribution
 */
public void setDistribution(String distribution)
{

```

```

        this.distribution = distribution;
    } //-- void setDistribution(String)

/**
 * Set
 *
 *      The full legal name of the license.
 *
 *
 *
 * @param name
 */
public void setName(String name)
{
    this.name = name;
} //-- void setName(String)

/**
 * Set
 *
 *      The official url for the license text.
 *
 *
 *
 * @param url
 */
public void setUrl(String url)
{
    this.url = url;
} //-- void setUrl(String)

private String modelEncoding = "UTF-8";

public void setModelEncoding( String modelEncoding )
{
    this.modelEncoding = modelEncoding;
}

public String getModelEncoding()
{
    return modelEncoding;
}}

```

1.12 httpclient 3.1.0

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1.13 nimbus-jose-jwt 4.3.1

1.14 ganymed-ssh2 262

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1.15 hazelcast 3.8.9

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1.16 jackson-annotations 2.3.0

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1.18 jrobin 1.5.14

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```
/* =====  
* JRobin : Pure java implementation of RRDTool's functionality  
* =====  
*  
* Project Info: http://www.jrobin.org  
* Project Lead: Sasa Markovic (saxon@jrobin.org);  
*  
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*  
* Developers: Sasa Markovic (saxon@jrobin.org)  
*             Arne Vandamme (cobralord@jrobin.org)  
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* Boston, MA 02111-1307, USA.  
*/  
  
package org.jrobin.core;  
  
/**  
* Class to represent single archive definition within the RRD.
```

```

* Archive definition consists of the following four elements:
*
* <ul>
* <li>consolidation function
* <li>X-files factor
* <li>number of steps
* <li>number of rows.
* </ul>
* <p>For the complete explanation of all archive definition parameters, see RRDTTool's
* <a href="../../man/rrdcreate.html" target="man">rrdcreate man page</a>
* </p>
*
* @author <a href="mailto:saxon@jrobin.org">Sasa Markovic</a>
*/

```

```

public class ArcDef {
    /** array of valid consolidation function names */
    public static final String CONSOL_FUNS[] = { "AVERAGE", "MAX", "MIN", "LAST" };

    private String consolFun;
    private double xff;
    private int steps, rows;

    /**
     * <p>Creates new archive definition object. This object should be passed as argument to
     * { @link org.jrobin.core.RrdDef#addArchive(org.jrobin.core.ArcDef) addArchive()} method of
     * { @link org.jrobin.core.RrdDb RrdDb} object.</p>
     *
     * <p>For the complete explanation of all archive definition parameters, see RRDTTool's
     * <a href="../../man/rrdcreate.html" target="man">rrdcreate man page</a></p>
     *
     * @param consolFun Consolidation function. Allowed values are "AVERAGE", "MIN",
     * "MAX" and "LAST".
     * @param xff X-files factor, between 0 and 1.
     * @param steps Number of archive steps.
     * @param rows Number of archive rows.
     * @throws RrdException Thrown if any parameter has illegal value.
     */
    public ArcDef(String consolFun, double xff, int steps, int rows) throws RrdException {
        this.consolFun = consolFun;
        this.xff = xff;
        this.steps = steps;
        this.rows = rows;
        validate();
    }

    /**
     * Returns consolidation function.
     */
}

```

```

* @return Consolidation function.
*/
public String getConsolFun() {
    return consolFun;
}

/**
* Returns the X-files factor.
* @return X-files factor value.
*/
public double getXff() {
    return xff;
}

/**
* Returns the number of primary RRD steps which complete a single archive step.
* @return Number of steps.
*/
public int getSteps() {
    return steps;
}

/**
* Returns the number of rows (aggregated values) stored in the archive.
* @return Number of rows.
*/
public int getRows() {
    return rows;
}

private void validate() throws RrdException {
    if(!isValidConsolFun(consolFun)) {
        throw new RrdException("Invalid consolidation function specified: " + consolFun);
    }
    if(Double.isNaN(xff) || xff < 0.0 || xff >= 1.0) {
        throw new RrdException("Invalid xff, must be >= 0 and < 1: " + xff);
    }
    if(steps <= 0 || rows <= 0) {
        throw new RrdException("Invalid steps/rows number: " + steps + "/" + rows);
    }
}

/**
* Returns string representing archive definition (RRDTool format).
* @return String containing all archive definition parameters.
*/
public String dump() {
    return "RRA:" + consolFun + ":" + xff + ":" + steps + ":" + rows;
}

```

```

}

/**
 * Checks if two archive definitions are equal.
 * Archive definitions are considered equal if they have the same number of steps
 * and the same consolidation function. It is not possible to create RRD with two
 * equal archive definitions.
 * @param obj Archive definition to compare with.
 * @return <code>true</code> if archive definitions are equal,
 * <code>false</code> otherwise.
 */
public boolean equals(Object obj) {
    if(obj instanceof ArcDef) {
        ArcDef arcObj = (ArcDef) obj;
        return consolFun.equals(arcObj.consolFun) && steps == arcObj.steps;
    }
    return false;
}

/**
 * Checks if function argument represents valid consolidation function name.
 * @param consolFun Consolidation function to be checked
 * @return <code>true</code> if <code>consolFun</code> is valid consolidation function,
 * <code>false</code> otherwise.
 */
public static boolean isValidConsolFun(String consolFun) {
    for(int i = 0; i < CONSOL_FUNS.length; i++) {
        if(CONSOL_FUNS[i].equals(consolFun)) {
            return true;
        }
    }
    return false;
}

void setRows(int rows) {
    this.rows = rows;
}

boolean exactlyEqual(ArcDef def) {
    return consolFun.equals(def.consolFun) && xff == def.xff &&
        steps == def.steps && rows == def.rows;
}
}

```

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Version 2.1, February 1999

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1.19 spring-ldap 1.3.1

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1.22 spring-security-acl 3.2.9

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 */
package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 *
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    //~ Static fields/initializers
    =====

    char RESERVED_ON = '~';
    char RESERVED_OFF = '.';
    String THIRTY_TWO_RESERVED_OFF = ".....";

    //~ Methods
    =====
    =====
}
```

```

/**
 * Returns the bits that represents the permission.
 *
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern String representing this permission.
 * <p>
 * Implementations are free to format the pattern as they see fit, although under no circumstances may
 * { @link #RESERVED_OFF} or { @link #RESERVED_ON} be used within the pattern. An exemption is in the
case of
 * { @link #RESERVED_OFF} which is used to denote a bit that is off (clear).
 * Implementations may also elect to use { @link #RESERVED_ON} internally for computation purposes,
 * although this method may not return any String containing { @link #RESERVED_ON}.
 * <p>
 * The returned String must be 32 characters in length.
 * <p>
 * This method is only used for user interface and logging purposes. It is not used in any permission
 * calculations. Therefore, duplication of characters within the output is permitted.
 *
 * @return a 32-character bit pattern
 */
String getPattern();
}

```

1.23 maven-profile 2.0.8

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```

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1.24 spring-binding 2.5.1

1.25 cxf-rt-core 2.7.3

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1.26 jackson 1.9.13

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Jackson JSON processor

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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
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1.27 osgi-core 1.2.0

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1.28 config 1.0.2

1.29 asm-attrs 1.5.3

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1.30 jetty 9.3.27.v20190418

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1.32 jtoml 1.0.0

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1.33 commons-lang 3.1

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1.34 postgresql 42.2.5.jre7

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1.35 cxf-rt-databinding-aegis 2.7.3

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1.36 tomcat-annotations-api 8.0.53

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1.41 tomcat-catalina-ha 8.0.53

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1.46 beanutils 1.8.3

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1.49 taglibs-standard 1.1.2

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1.50 cas-server-support-generic 3.5.2

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1.57 jeromq 0.3.2

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1.59 tomcat-tribes 8.0.53

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1.65 advanced-gwt 2.0.9

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1.66 java-jwt 3.8.3

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1.67 jetty-xml 9.3.27.v20190418

1.68 javax-annotation 1.0.0

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1.70 oro 2.0.8

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1.71 jackson-module-scala 2.2.0

1.72 maven-repository-metadata 2.0.8

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1.73 hazelcast-client-protocol 1.4.1

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 */
```

```
package com.hazelcast.security.permission;
```

```
public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
    }
}
```

```

        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {

```

```

        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_ADD.equals(action)) {
        mask |= ADD;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    }
}
return mask;
}
}
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package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {
        super(name, actions);
    }
}
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```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;  
import java.security.PermissionCollection;  
import java.util.Collections;  
import java.util.Enumeration;  
import java.util.HashSet;  
import java.util.Iterator;  
import java.util.Set;
```

```
public class ClusterPermissionCollection extends PermissionCollection {
```

```
    final Set<Permission> perms = new HashSet<Permission>();  
    final Class<? extends Permission> permClass;
```

```
    public ClusterPermissionCollection() {  
        permClass = null;  
    }
```

```
    public ClusterPermissionCollection(Class<? extends Permission> permClass) {  
        this.permClass = permClass;  
    }
```

```
    @Override
```

```
    public void add(Permission permission) {  
        if (isReadOnly()) {  
            throw new SecurityException("ClusterPermissionCollection is read-only!");  
        }  
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))  
            || (permission instanceof ClusterPermission);  
  
        if (shouldAdd && !implies(permission)) {  
            perms.add(permission);  
        }  
    }
```

```
    public void add(PermissionCollection permissions) {  
        if (isReadOnly()) {  
            throw new SecurityException("ClusterPermissionCollection is read-only!");  
        }  
    }
```

```

    if (permissions instanceof ClusterPermissionCollection) {
        for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
            add(p);
        }
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override

```

```

public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "];
}
}
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 */

```

```

package com.hazelcast.security.permission;

```

```

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

    private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

    public SemaphorePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
                mask |= ACQUIRE;
            } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
                mask |= RELEASE;
            }
        }
    }
}

```

```

        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

/**
 * To be able to map-reduce from a client in a secure environment
 */
public class MapReducePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public MapReducePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            }
        }
    }
}

```

```

        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}
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 */

package com.hazelcast.security.permission;

```

```

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
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- */

```

package com.hazelcast.security.permission;

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";
    public static final String ACTION_DESTROY = "destroy";
    public static final String ACTION_MODIFY = "modify";
    public static final String ACTION_READ = "read";
    public static final String ACTION_REMOVE = "remove";
    public static final String ACTION_LOCK = "lock";
    public static final String ACTION_LISTEN = "listen";
    public static final String ACTION_RELEASE = "release";
    public static final String ACTION_ACQUIRE = "acquire";
    public static final String ACTION_PUT = "put";
    public static final String ACTION_ADD = "add";
    public static final String ACTION_INDEX = "index";
    public static final String ACTION_INTERCEPT = "intercept";

```

```

public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";

public static final String LISTENER_INSTANCE = "instance";
public static final String LISTENER_MEMBER = "member";
public static final String LISTENER_MIGRATION = "migration";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
PermissionFactory>();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new SetPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new AtomicLongPermission(name, actions);
        }
    });
}

```

```

PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountdownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});

```

```

});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
}

private ActionConstants() {
}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions

```

```

* @return the created Permission
* @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
*/
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

}
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*/

package com.hazelcast.security.permission;

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
    }
}

```

```

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_PUT.equals(action)) {
        mask |= PUT;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class MapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

    public MapPermission(String name, String... actions) {
        super(name, actions);
    }
}

```

```

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}
}
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 */
package com.hazelcast.security.permission;

```

```

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public final class AllPermissions extends ClusterPermission {

    public AllPermissions() {
        super("<all permissions>");
    }

    @Override
    public boolean implies(Permission permission) {
        return true;
    }

    @Override
    public String getActions() {
        return "<all actions>";
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionsCollection();
    }

    @Override
    public String toString() {
        return "<allow all permissions>";
    }

    @Override
    public boolean equals(Object obj) {
        return obj instanceof AllPermissions;
    }

    @Override
    public int hashCode() {
        return 111;
    }

    public static final class AllPermissionsCollection extends PermissionCollection {
        private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
        private boolean all;

        public AllPermissionsCollection() {
        }
    }
}

```

```

public AllPermissionsCollection(boolean all) {
    this.all = all;
}

@Override
public void add(Permission permission) {
    if (permission instanceof AllPermissions) {
        all = true;
    }
}

@Override
public boolean implies(Permission permission) {
    return all;
}

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        boolean more = all;

        @Override
        public boolean hasMoreElements() {
            return more;
        }

        @Override
        public Permission nextElement() {
            more = false;
            return ALL_PERMISSIONS;
        }
    };
}

@Override
public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {

```

```

        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}

```

```

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 */

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();

    protected final int mask;
    protected final String actions;

    public InstancePermission(String name, String... actions) {
        super(name);
        if (name == null || "".equals(name)) {
            throw new IllegalArgumentException("Permission name is mandatory!");
        }
        mask = initMask(actions);

        final StringBuilder s = new StringBuilder();
        for (String action : actions) {
            s.append(action).append(" ");
        }
    }

```

```

        this.actions = s.toString();
    }

    /**
     * init mask
     */
    protected abstract int initMask(String[] actions);

    @Override
    public boolean implies(Permission permission) {
        if (this.getClass() != permission.getClass()) {
            return false;
        }

        InstancePermission that = (InstancePermission) permission;

        boolean maskTest = ((this.mask & that.mask) == that.mask);
        if (!maskTest) {
            return false;
        }

        return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
    }

    @Override
    public String getActions() {
        return actions;
    }

    @Override
    public int hashCode() {
        int result = super.hashCode();
        result = 31 * result + mask;
        result = 31 * result + actions.hashCode();
        return result;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
    }

```

```

InstancePermission other = (InstancePermission) obj;
if (getName() == null && other.getName() != null) {
    return false;
}
if (!getName().equals(other.getName())) {
    return false;
}
if (mask != other.mask) {
    return false;
}
return true;
}
}
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }
}

```

```

@Override
public Enumeration<Permission> elements() {
    return new Enumeration<Permission>() {
        @Override
        public boolean hasMoreElements() {
            return false;
        }

        @Override
        public Permission nextElement() {
            return null;
        }
    };
}

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}
}
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 */

package com.hazelcast.security.permission;

```

```

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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 */

```

```

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashCode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashCode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashCode = result;
        }
        return hashCode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }
        if (getClass() != obj.getClass()) {
            return false;
        }
        ClusterPermission other = (ClusterPermission) obj;
        if (getName() == null && other.getName() != null) {
            return false;
        }
    }
}

```

```

    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}
}
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 */

package com.hazelcast.security.permission;

public class CountdownLatchPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;

    public CountdownLatchPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_READ.equals(action)) {

```

```

        mask |= READ;
    } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
        mask |= MODIFY;
    }
}
return mask;
}
}
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 * limitations under the License.
 */

package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int LOCK = 64;
    private static final int INDEX = 128;
    private static final int INTERCEPT = 256;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

    public ReplicatedMapPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
    }
}

```

```

    }

    if (ActionConstants.ACTION_CREATE.equals(action)) {
        mask |= CREATE;
    } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
        mask |= DESTROY;
    } else if (ActionConstants.ACTION_PUT.equals(action)) {
        mask |= PUT;
    } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
        mask |= REMOVE;
    } else if (ActionConstants.ACTION_READ.equals(action)) {
        mask |= READ;
    } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
        mask |= LISTEN;
    } else if (ActionConstants.ACTION_LOCK.equals(action)) {
        mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
        mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
        mask |= INTERCEPT;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {

```

```

    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;
    private static final int LISTEN = 32;
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

    public CachePermission(String name, String... actions) {
        super(name, actions);
    }
}

```

```

}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
}
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 */
/**
 * Contains all the security permissions
 */
package com.hazelcast.security.permission;

```

```

/*
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 */

```

```
package com.hazelcast.security.permission;
```

```
public class ExecutorServicePermission extends InstancePermission {
```

```
    private static final int ALL = CREATE | DESTROY;
```

```
    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

```

```
    @Override
```

```
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}

```

```

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*/

```
package com.hazelcast.security.permission;
```

```
public class AtomicReferencePermission extends InstancePermission {  
  
    private static final int READ = 4;  
    private static final int MODIFY = 8;  
  
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;  
  
    public AtomicReferencePermission(String name, String... actions) {  
        super(name, actions);  
    }  
  
    @Override  
    protected int initMask(String[] actions) {  
        int mask = NONE;  
        for (String action : actions) {  
            if (ActionConstants.ACTION_ALL.equals(action)) {  
                return ALL;  
            }  
  
            if (ActionConstants.ACTION_CREATE.equals(action)) {  
                mask |= CREATE;  
            } else if (ActionConstants.ACTION_READ.equals(action)) {  
                mask |= READ;  
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {  
                mask |= MODIFY;  
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {  
                mask |= DESTROY;  
            }  
        }  
        return mask;  
    }  
}  
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*  
*/
```

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 */

```
package com.hazelcast.security.permission;
```

```
public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
                mask |= PUBLISH;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
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```

```

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*/

```

```
package com.hazelcast.security.permission;
```

```
public class CardinalityEstimatorPermission extends InstancePermission {
```

```
    private static final int READ = 4;
```

```
    private static final int MODIFY = 8;
```

```
    private static final int ALL = READ | MODIFY | CREATE | DESTROY;
```

```
    public CardinalityEstimatorPermission(String name, String... actions) {
```

```
        super(name, actions);
```

```
    }
```

```
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
```

```
                return ALL;
```

```
            }
```

```
            if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
                mask |= CREATE;
```

```
            } else if (ActionConstants.ACTION_READ.equals(action)) {
```

```
                mask |= READ;
```

```
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
```

```
                mask |= MODIFY;
```

```
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
                mask |= DESTROY;
```

```
            }
```

```
        }
```

```
        return mask;
```

```
    }
```

```
}
```

```
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```

```
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```

```
public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
    }
}
```

```
    return mask;
  }
}
```

1.74 person-directory-api 1.5.0

1.75 commons-discovery 0.4

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1.76 struts 1.3.10

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1.77 spring-security-taglibs 3.2.9

1.78 wagon-http-shared 1.0-beta-2

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  </head>
  <body>
    <script type="text/javascript">prefix=";</script>

    <script src="templates/header.js" type="text/javascript"></script>
    <div id="left">
      <script src="templates/left.js" type="text/javascript"></script>
    </div>
    <div id="right">
      <script src="templates/right.js" type="text/javascript"></script>
    </div>

    <div id="content">
```

```
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```

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1.85 cxf 2.7.3

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1.86 lucene-memory 3.6.0

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`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/snowball`
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The full snowball package is available from
<http://snowball.tartarus.org/>

The KStem stemmer in
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`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,
`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(`common`) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`
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`contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`

contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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1.99 json-smart 1.3.1

1.100 reflections 0.9.9

1.101 plexus-container-default 1.0-alpha-9-stable-1

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1.104 snmp-4j 1.11.2

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1.113 commons-jexl 1.1

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1.114 wstx-asl 3.2.9

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1.115 java-xml 1.1.0

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1.116 spring-web-mvc 4.3.19

1.117 concepts 0.8.4

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1.125 cxf-rt-frontend-jaxws 2.7.3

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1.128 maven-settings 2.0.8

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1.134 antlr 4.5.1

1.135 jsch 0.1.50

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1.136 jackson-module-jaxb-annotations 2.4.0

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1.137 isorelax 0.0.0.20041111

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1.138 hibernate 3.6.9

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```
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Ty Coon, President of Vice
```

That's all there is to it!

```
// $Id: Permission.java 7736 2005-08-03 20:03:34Z stevebersole $  
package org.hibernate.test.version.db;
```

```
import java.util.Date;
```

```
/**
```

* Implementation of Permission.

*

* @author Steve Ebersole

*/

```
public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;

    public Permission() {
    }

    public Permission(String name, String context, String access) {
        this.name = name;
        this.context = context;
        this.access = access;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Date getTimestamp() {
        return timestamp;
    }

    public void setTimestamp(Date timestamp) {
        this.timestamp = timestamp;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getContext() {
        return context;
    }
}
```

```
public void setContext(String context) {
    this.context = context;
}

public String getAccess() {
    return access;
}

public void setAccess(String access) {
    this.access = access;
}
}
```

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```
//$Id: Permission.java 10977 2006-12-12 23:28:04Z steve.ebersole@jboss.com $  
package org.hibernate.test.collection.original;
```

```
/**
```

```
 * @author Gavin King
```

```
 */
```

```
public class Permission {  
    private String type;  
    Permission() {}  
    public String getType() {  
        return type;  
    }  
    public void setType(String type) {  
        this.type = type;  
    }  
    public Permission(String type) {  
        this.type = type;  
    }  
    public boolean equals(Object that) {  
        if ( !(that instanceof Permission) ) return false;  
        Permission p = (Permission) that;  
        return this.type.equals(p.type);  
    }  
    public int hashCode() {  
        return type.hashCode();  
    }  
}
```

```

}
}
package org.hibernate.ejb.test.util;

import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.ManyToOne;
import javax.persistence.MappedSuperclass;

/**
 * @author Emmanuel Bernard
 */
@MappedSuperclass
public abstract class CopyrightableContent {
    private Author author;

    public CopyrightableContent() {
    }

    public CopyrightableContent(Author author) {
        this.author = author;
    }

    @ManyToOne(fetch = FetchType.LAZY)
    private Author getAuthor() {
        return author;
    }

    private void setAuthor(Author author) {
        this.author = author;
    }
}

```

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//\$Id\$

```
package org.hibernate.test.annotations.manytomany;
```

```
import java.util.Date;
import javax.persistence.Entity;
import javax.persistence.Id;
```

```
/**
```

```
 * @author Emmanuel Bernard
```

```
 */
```

```
@Entity
```

```
public class Permission {
    private String permission;
    private Date expirationDate;
```

```
@Id
```

```
public String getPermission() {
    return permission;
}
```

```
public void setPermission(String permission) {
    this.permission = permission;
}
```

```
public Date getExpirationDate() {
    return expirationDate;
}
```

```
public void setExpirationDate(Date expirationDate) {
    this.expirationDate = expirationDate;
}
}
```

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```
// $Id: Permission.java 7805 2005-08-10 16:25:11Z stevebersole $  
package org.hibernate.test.version.sybase;
```

```
import java.util.Date;
```

```
/**
```

```
 * Implementation of Permission.
```

```
 */
```

```
* @author Steve Ebersole
*/
public class Permission {
    private Long id;
    private Date timestamp;
    private String name;
    private String context;
    private String access;

    public Permission() {
    }

    public Permission(String name, String context, String access) {
        this.name = name;
        this.context = context;
        this.access = access;
    }

    public Long getId() {
        return id;
    }

    public void setId(Long id) {
        this.id = id;
    }

    public Date getTimestamp() {
        return timestamp;
    }

    public void setTimestamp(Date timestamp) {
        this.timestamp = timestamp;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getContext() {
        return context;
    }

    public void setContext(String context) {
        this.context = context;
    }
}
```

```
}  
  
public String getAccess() {  
    return access;  
}  
  
public void setAccess(String access) {  
    this.access = access;  
}  
}
```

1.139 commons-daemon 1.1.0

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1.140 opentracing-noop 0.31.0

1.141 spring-jdbc 4.3.19

1.142 kryo 2.16

1.143 cxf-rt-management 2.7.3

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1.144 cxf-rt-bindings-object 2.7.3

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1.145 hsql-db 2.3.0

1.146 lucene-queries 3.6.0

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`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,
`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`
See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers
(`common`) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
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`contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`
`contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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1.147 yang-common 0.8.4

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1.148 jetty-servlet 9.3.27.v20190418

1.149 hamcrest 1.1

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1.150 jettison 1.3.3

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1.151 cxf-tools-java2ws 2.7.3

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1.153 neko-html 1.9.13

1.154 cxf-rt-transports-http 2.7.3

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1.155 spring-orm 4.3.19

1.156 cxf-rt-rs-security-xml 2.7.3

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1.157 yang-parser-api 0.8.4

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1.158 jaxb2-basics-runtime 0.6.2

1.159 spring-security-core 3.2.9

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1.160 joda-time 1.6

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<br>
&middledot;&nbsp;<a class="menu" target="_self" href="/asmdex-history.html">History</a>
<br>
</div>
<br>
<div class="OW2menu">
<div class="OW2menutitre">Developers' Corner</div>
&middledot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/projects/asm/">ObjectWeb
Forge Site</a>
<br>
&middledot;&nbsp;<a class="menu" target="_self"
href="http://forge.objectweb.org/plugins/scmsvn/index.php?group_id=23">SVN Repository</a>
<br>
&middledot;&nbsp;<a class="menu" target="_self" href="http://forge.objectweb.org/tracker/?group_id=23">Issue
Tracker</a>
<br>
&middledot;&nbsp;<a class="menu" target="_self" href="/doc/developer-guide.html">Developer Guide</a>
<br>
</div>
<br>
<div class="OW2menu">
<div class="OW2menutitre">About</div>
&middledot;&nbsp;<a class="menu" target="_self" href="/users.html">Users</a>
<br>
```

```
&middledot;&nbsp;<a class="menu" target="_self" href="/team.html">Team</a>
<br>
&middledot;&nbsp;<a class="menu" target="_self" href="mailto:asm-team@objectweb.org">Contacts</a>
<br>
</div>
<br>
</td><td align="left" width="100%" valign="top">
<h1>Project License</h1>
```

```
<pre>
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```

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```
</pre>
</td><td valign="top" width="10"></td>
</tr>
<tr>
<td valign="top" width="20"></td><td valign="top" width="160"></td><td valign="top"><br>
<address>Copyright &copy; 1999-2009, <a href="http://www.ow2.org/">OW2 Consortium</a> | <a
href="http://wiki.opalval.ow2.org/xwiki/bin/view/Main/Contact">contact</a> | <a
href="mailto:webmaster@ow2.org">webmaster</a> | Last modified at 2016-12-23 11:07 AM</address>
</td><td valign="top" width="10"></td>
</tr>
</table>
<br>
</body>
</html>
<!DOCTYPE html>
<html>
<head>

<title>Scala License | The Scala Programming Language</title>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>

<link rel="icon" type="image/png" href="/resources/favicon.ico">
<link rel="shortcut icon" type="image/png" href="/resources/favicon.ico">

<!-- prettify CSS (corresponding js at footer)-->
<link rel="stylesheet" href="/resources/css/prettify.css" type="text/css" />

<!-- Bootstrap CSS -->
<link rel="stylesheet" href="/resources/css/bootstrap.css" type="text/css" />

<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,600,700,900,400italic,700italic'
rel='stylesheet' type='text/css'>

<!-- Custom stylesheet -->
<link rel="stylesheet" href="/resources/css/main.css" type="text/css" />

<!-- Typekit (should stay at top of page, do not move to footer)-->
<script type="text/javascript" src="//use.typekit.net/abh3wgk.js"></script>
<script type="text/javascript">try{Typekit.load();}catch(e){}</script>

<!-- Atom feeds -->
<link rel="alternate" type="application/atom+xml" title="News Feed" href="/feed/index.xml" />
<link rel="alternate" type="application/atom+xml" title="Blog Feed" href="/feed/blog.xml" />

</head>
<body>

<div class="darkstrip"></div>

```

```

<div class="darkbluetopbar">
  <div class="container" style="height: 100%">
    <div class="navbar-wrap">
      <div class="container" style="position: relative; height: 100%;">
        <div class="scala-logo">
          <a href="/index.html"></a>
        </div>
        <ul class="nav">
          <li><a href="/documentation/">Documentation</a></li>
          <li><a href="/download/">Download</a></li>
          <li><a href="/community/">Community</a></li>
          <li><a href="/contribute/">Contribute</a></li>
          <li id="source-code" >
            <a href="http://github.com/scala/scala"></a>
            <div class="toptip">Source Code</div>
          </li>
          <li id="scala-lang-twitter">
            <a href="http://twitter.com/scala_lang"></a>
            <div class="toptip">Scala on Twitter</div>
          </li>
        </ul>

        </div>
      </div>
    </div>
  </div>

  <div class="midbluebar">
    <div class="container">
      <h1 id="page-title">Scala License</h1>
    </div>
  </div>

  <div class="page-container">
    <div class="container" style="min-height: 540px;">
      <div class="main-page-column">

        <p>Scala is licensed under the <a href="http://opensource.org/licenses/BSD-3-Clause">BSD 3-Clause
        License</a>.</p>

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        <p>Copyright (c) 2002-<span class="current-year"> </span> EPFL<br />
        Copyright (c) 2011-<span class="current-year"> </span> Lightbend, Inc.</p>

        <p>All rights reserved.</p>

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</div>

<div class="sidebar">

<div class="sidebar-inner">

<div class="contents">Contents</div>

<div id="toc"></div>

<div class="alert-info">

<p>Problem with this page?

Please help us fix it!</p>

</div>

</div>

</div>

<div style="clear:both"></div>

</div>

</div>

<div class="footer">

<div class="container">


```
<li><h5>Documentation</h5></li>
<li><a href="/documentation/getting-started.html">Getting Started</a></li>
<li><a href="http://www.scala-lang.org/api/current/index.html#package">API</a></li>
<li><a href="http://docs.scala-lang.org/overviews/">Overviews/Guides</a></li>
<li><a href="http://docs.scala-lang.org/tutorials/">Tutorials</a></li>
<li><a href="/files/archive/spec/2.12/">Language Specification</a></li>
</ul>
<ul>
<li><h5>Download</h5></li>
<li><a href="/download/">Current Version</a></li>
<li><a href="/download/all.html">All Versions</a></li>
</ul>
<ul>
<li><h5>Community</h5></li>
<li><a href="/community/">Community</a></li>
<li><a href="/community/index.html#mailing-lists">Mailing Lists</a></li>
<li><a href="/community/index.html#chat-rooms">Chat Rooms & More</a></li>
<li><a href="/community/index.html#community-libraries-and-tools">Libraries and Tools</a></li>
<li><a href="https://scala.epfl.ch/">The Scala Center</a></li>
</ul>
<ul>
<li><h5>Contribute</h5></li>
<li><a href="/contribute">How to Help</a></li>
<li><a href="/contribute/bug-reporting-guide.html">Report an Issue</a></li>
</ul>
<ul>
<li><h5>Scala</h5></li>
<li><a href="/blog">Blog</a></li>
<li><a href="/news">Archive</a></li>
<li><a href="/conduct.html">Code of Conduct</a></li>
<li><a href="/license.html">License</a></li>
</ul>
</div>
<div class="container">
<div class="copyright">
<a style="float: left; margin-right: 8px;" href="http://www.epfl.ch"></a>
<p style="float: left;"><br/>Copyright &copy; 2002-
```

```

<script src="/resources/js/vendor/prettify/prettify.js" type="text/javascript" ></script>
<script src="/resources/js/vendor/prettify/lang-scala.js" type="text/javascript" ></script>

<!-- jquery js -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.8.3/jquery.min.js" integrity="sha384-
lifoBlldwizTl3Yoe612uhI3AcOam/QtWkozF7SuiACaf5UJl5reOYu4MigVxrCH"
crossorigin="anonymous"></script>

<!-- modernizr js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/modernizr/2.6.2/modernizr.min.js" integrity="sha256-
zyXsGPIj9MUc4RKKQuZEzcIkTYj4nRpRRA2dvlH07+g=" crossorigin="anonymous"></script>

<!-- retina js -->
<script src="/resources/js/vendor/retina.js" type="text/javascript" ></script>

<!-- backstretch js -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-backstretch/2.0.4/jquery.backstretch.min.js"
integrity="sha256-V52dl3OFjoY+fYAkifhLJ7f1V7mZAKPGCQoWzoQxrEU="
crossorigin="anonymous"></script>

<!-- Bootstrap JS -->
<script src="https://maxcdn.bootstrapcdn.com/twitter-bootstrap/2.2.1/js/bootstrap.min.js" integrity="sha384-
qJ8AGIuPqPo4I2zhyRYO6vQaJrGBbTpLiXGihDsGpfMCHJD0IKH0gkPQTtoGD5ek3"
crossorigin="anonymous"></script>

<!-- table of contents JS -->
<script src="/resources/js/vendor/toc.js" type="text/javascript" ></script>
<script type="text/javascript">
$(document).ready(function() {
    $('#toc').toc({exclude: 'h1, h5, h6', context: '', autoId: true, numerate: false });
    function moveScroller() {
        if ($(".sidebar").length == 0)
            return;
        var a = function() {
            var topOfScroll = $(window).scrollTop();
            var topOfSidebar = $(".sidebar").offset().top;
            var sidebarInner = $(".sidebar-inner");
            var bottomOfSidebarInner = $(".sidebar-inner").offset().top + $(".sidebar-inner").outerHeight();
            var topOfFooter = $(".footer").offset().top - 10;
            var footerHeight = $(".footer").outerHeight();
            if (topOfScroll > topOfSidebar) {
                if (bottomOfSidebarInner > topOfFooter) {
                    sidebarInner.css({position:"fixed",bottom:footerHeight,top:""});
                } else {
                    sidebarInner.css({position:"fixed",top:"10px",bottom:""});
                }
            } else {

```

```
        sidebarInner.css({position:"relative",top:""});
    }
};
$(window).scroll(a);a()
}
moveScroller();
})
</script>

<!-- Custom javascript -->
<script src="/resources/js/main.js" type="text/javascript"></script>
</body>
</html>
```

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1.163 cas-server-support-ldap 3.5.2.1

1.164 wagon-provider-api 1.0-beta-2

1.164.1 Available under license :

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1.165 openid 3.0.3

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1.166 gwt-user 2.6.1

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* Originally taken from org.apache.java.security.MD5 fetched from:

* <pre>

* <http://archive.apache.org/dist/turbine/turbine-2.1/source/turbine-src-2.1b3.tar.gz>

* </pre>

*

* Modified by removing test data, changing style to match GWT style guide,
* and making it better conform to MessageDigestSpi.

*

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```
/*
 * This class implements the Message Digest 5 algorithm (MD5) as defined in
 * <a href="http://tools.ietf.org/html/rfc1321">RFC-1321</a>.
 *
 * <p><b>Note:</b> even if standard Java 1.1 APIs already provide a MD5
 * implementation, this class is used on those Java runtime environments (like
 * Kaffe) where the package <code>java.security</code> is highly improbable to
 * be found.
 *
 * author <a href="mailto:stefano@apache.org">Stefano Mazzocchi</a>
 */
```

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1.169 spring-webmvc-portlet 4.3.19

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1.173 cxf-rt-ws-mex 2.7.3

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1.174 hibernate-commons-annotations 3.2.0

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*/

```
package org.hibernate.annotations.common.reflection.java;
```

```
import java.lang.reflect.Type;
```

```
import java.util.Collection;
```

```
import org.hibernate.annotations.common.reflection.XClass;
```

```
import org.hibernate.annotations.common.reflection.java.generics.TypeEnvironment;
```

```
/**
```

```
 * @author Emmanuel Bernard
```

```
 * @author Paolo Perrotta
```

```
 */
```

```
class JavaXSimpleType extends JavaXType {
```

```
    public JavaXSimpleType(Type type, TypeEnvironment context, JavaReflectionManager factory) {  
        super( type, context, factory );  
    }
```

```
    public boolean isArray() {  
        return false;  
    }
```

```
    public boolean isCollection() {  
        return false;  
    }
```

```
    public XClass getElementClass() {  
        return toXClass( approximate() );  
    }
```

```
    public XClass getClassOrElementClass() {  
        return getElementClass();  
    }
```

```
    public Class<? extends Collection> getCollectionClass() {  
        return null;  
    }
```

```
    public XClass getType() {
```

```

return toXClass( approximate() );
}

public XClass getMapKey() {
return null;
}
}
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
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*/
package org.hibernate.annotations.common.reflection.java.generics;

import java.lang.reflect.GenericArrayType;
import java.lang.reflect.ParameterizedType;
import java.lang.reflect.Type;
import java.lang.reflect.TypeVariable;
import java.lang.reflect.WildcardType;
import java.util.HashMap;

/**
* Binds formal type arguments (typically T, E, etc.) to actual types.
*
* @author Davide Marchignoli
* @author Paolo Perrotta
*/
class SimpleTypeEnvironment extends HashMap<Type, Type> implements TypeEnvironment {

private static final long serialVersionUID = 1L;

```

```

private final TypeSwitch<Type> substitute = new TypeSwitch<Type>() {
@Override
public Type caseClass(Class classType) {
return classType;
}

@Override
public Type caseGenericType(GenericType genericType) {
Type originalComponentType = genericType.getGenericComponentType();
Type boundComponentType = bind( originalComponentType );
// try to keep the original type if possible
if ( originalComponentType == boundComponentType ) {
return genericType;
}
return TypeFactory.createGenericType( boundComponentType );
}

@Override
public Type caseParameterizedType(ParameterizedType parameterizedType) {
Type[] originalArguments = parameterizedType.getActualTypeArguments();
Type[] boundArguments = substitute( originalArguments );
// try to keep the original type if possible
if ( areSame( originalArguments, boundArguments ) ) {
return parameterizedType;
}
return TypeFactory.createParameterizedType(
parameterizedType.getRawType(), boundArguments, parameterizedType.getOwnerType()
);
}

private boolean areSame(Object[] array1, Object[] array2) {
if ( array1.length != array2.length ) {
return false;
}
for ( int i = 0; i < array1.length ; i++ ) {
if ( array1[i] != array2[i] ) {
return false;
}
}
return true;
}

@Override
public Type caseTypeVariable(TypeVariable typeVariable) {
if ( !containsKey( typeVariable ) ) {
return typeVariable;
}
}

```

```

        return get( typeVariable );
    }

    @Override
    public Type caseWildcardType(WildcardType wildcardType) {
        return wildcardType;
    }
};

public SimpleTypeEnvironment(Type[] formalTypeArgs, Type[] actualTypeArgs) {
    for (int i = 0; i < formalTypeArgs.length; i++) {
        put( formalTypeArgs[i], actualTypeArgs[i] );
    }
}

public Type bind(Type type) {
    return substitute.doSwitch( type );
}

private Type[] substitute(Type[] types) {
    Type[] substTypes = new Type[types.length];
    for ( int i = 0; i < substTypes.length ; i++ ) {
        substTypes[i] = bind( types[i] );
    }
    return substTypes;
}
}
}

```

1.175 wagon-file 1.0-beta-2

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1.177 hibernate-validator 6.0.2.Final

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1.188 logback-core 1.1.2

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1.189 tomcat-servlet-api 8.0.53

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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- web-fragment_3_0.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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1.192 stax-api 1.0

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1.194 axiom-api 1.2.12

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1.195 tomcat-util-scan 8.0.53

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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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1.200 ehcache-terracotta 2.6.5

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1.204 cxf-rt-ws-security 2.7.3

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1.212 cxf-rt-rs-security-cors 2.7.3

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1.215 spring-aop 4.3.19

1.216 opencensus-contrib-grpc-metrics 0.10.0

1.217 jrobin 1.5.9

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1.226 cxf-rt-ws-rm 2.7.3

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1.228 jtype 0.1.1

1.229 spring-web 2.0.8

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1.231 security-web 3.2.9

1.232 ognl 2.7.3

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1.235 httpcore-nio 4.4.1

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1.237 maven-error-diagnostics 2.0.8

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1.238 struts-taglib 1.3.10

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1.239 spring-context 4.3.19

1.240 cassandra-driver-core 2.1.0

1.241 spring-security-ldap 3.0.3

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1.242 activemq 5.7.0

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1.243 regexp 2.7.2

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1.244 jackson-annotations 2.7.9

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1.248 httpcomponents-httpmime 4.2.3

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1.249 shiro 1.2.2

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*/

```

```
package org.apache.shiro.authz.permission;
```

```
import java.io.Serializable;
```

```
import org.apache.shiro.authz.Permission;
```

```
/**
```

```

* An all AllPermission instance is one that always implies any other permission; that is, its
* { @link #implies implies } method always returns <tt>>true</tt>.

```

```
*
```

```

* <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
* those respective entities will have the ability to do anything. As such, an instance of this class
* is typically only assigned only to "root" or "administrator" users or roles.

```

```
*
```

```
* @since 0.1
```

```
*/
```

```
public class AllPermission implements Permission, Serializable {
```

```
    /**
```

```

    * Always returns <tt>>true</tt>, indicating any Subject granted this permission can do anything.
    
```

```
    *
```

```
    * @param p the Permission to check for implies logic.
```

```
    * @return <tt>>true</tt> always, indicating any Subject granted this permission can do anything.
```

```
    */
```

```
    public boolean implies(Permission p) {
```

```
        return true;
```

```
    }
```

```
}
```

```
/**
```

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*/
package org.apache.shiro.authz.permission;

/**
* Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
that
* might already exist instead of potentially creating one itself.
*
* <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
* { @link org.apache.shiro.realm.Realm Realm } implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* { @link org.apache.shiro.authz.Permission Permission } instances.
*
* @since 0.9
*/
public interface PermissionResolverAware {

    /**
    * Sets the specified <tt>PermissionResolver</tt> on this instance.
    *
    * @param pr the <tt>PermissionResolver</tt> being set.
    */
    public void setPermissionResolver(PermissionResolver pr);
}

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```

```
*/
```

```
package org.apache.shiro.authz.permission;
```

```
import static org.junit.Assert.assertTrue;
```

```
import org.junit.Test;
```

```
/**
```

```
*/
```

```
public class AllPermissionTest {
```

```
    @Test
```

```
    public void testNullArgument() {
```

```
        assertTrue(new AllPermission().implies(null));
```

```
    }
```

```
    @Test
```

```
    public void testNonNullArgument() {
```

```
        assertTrue(new AllPermission().implies(new AllPermission()));
```

```
    }
```

```
}
```

```
/*
```

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```
*/
```

```
package org.apache.shiro.authz.permission;
```

```
import org.apache.shiro.authz.Permission;
```

```
/**
```

```

* A {@code PermissionResolver} resolves a String value and converts it into a
* {@link org.apache.shiro.authz.Permission Permission} instance.
* <p/>
* The default {@link WildcardPermissionResolver} should be
* suitable for most purposes, which constructs {@link WildcardPermission} objects.
* However, any resolver may be configured if an application wishes to use different
* {@link org.apache.shiro.authz.Permission} implementations.
* <p/>
* A {@code PermissionResolver} is used by many Shiro components such as annotations, property file
* configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
* and that String needs to be converted to a Permission instance before executing a security check.
* <p/>
* Shiro chooses to support {@link WildcardPermission Wildcardpermission}s by default in almost all components
and
* we do that in the form of the {@link WildcardPermissionResolver WildcardPermissionResolver}. One of the
nice
* things about {@code WildcardPermission}s being supported by default is that it makes it very easy to
* store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
* annotations, etc., where a simple string representation is useful.
* <p/>
* Although this happens to be the Shiro default, you are of course free to provide custom
* String-to-Permission conversion by providing Shiro components any instance of this interface.
*
* @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
ModularRealmAuthorizer.setPermissionResolver
* @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
AuthorizingRealm.setPermissionResolver
* @see PermissionResolverAware PermissionResolverAware
* @since 0.9
*/
public interface PermissionResolver {

    /**
     * Resolves a Permission based on the given String representation.
     *
     * @param permissionString the String representation of a permission.
     * @return A Permission object that can be used internally to determine a subject's permissions.
     * @throws InvalidPermissionStringException
     *         if the permission string is not valid for this resolver.
     */
    Permission resolvePermission(String permissionString);

}
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*/
```

```
package org.apache.shiro.authz.permission;
```

```
/**
```

```
* Interface implemented by a component that wishes to use any application-configured
<tt>RolePermissionResolver</tt> that
* might already exist instead of potentially creating one itself.
```

```
*
```

```
* <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
* { @link org.apache.shiro.realm.Realm Realm } implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* { @link org.apache.shiro.authz.Permission Permission } instances.
```

```
*
```

```
* @since 1.0
```

```
*/
```

```
public interface RolePermissionResolverAware {
```

```
/**
```

```
* Sets the specified <tt>RolePermissionResolver</tt> on this instance.
```

```
*
```

```
* @param rpr the <tt>RolePermissionResolver</tt> being set.
```

```
*/
```

```
public void setRolePermissionResolver(RolePermissionResolver rpr);
```

```
}
```

```
/*
```

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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

import java.util.Collection;

/**
 * A RolePermissionResolver resolves a String value and converts it into a Collection of
 * { @link org.apache.shiro.authz.Permission } instances.
 * <p/>
 * In some cases a { @link org.apache.shiro.realm.Realm } may only be able to return a list of roles. This
 * component allows an application to resolve the roles into permissions.
 *
 */
public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     *
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);

}

```

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*/
/**
* Support and default implementations for Shiro's { @link org.apache.shiro.authz.Permission Permission }
* interface.
* <p/>
* Also note the { @link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver } interface, as
* it plays an important part in many of Shiro's { @link org.apache.shiro.realm.Realm Realm } implementations
* and AOP support.
*/
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*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
* Thrown by { @link PermissionResolver#resolvePermission(String) } when the String being parsed is not
* valid for that resolver.
*
* @since 0.9
*/

```

```

public class InvalidPermissionStringException extends ShiroException
{

    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     *
     * @param message      the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     *
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }

}

```

Apache Shiro

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The implementation for `org.apache.shiro.util.SoftHashMap` is based
on initial ideas from Dr. Heinz Kabutz's publicly posted version
available at <http://www.javaspecialists.eu/archive/Issue015.html>,
with continued modifications.

Certain parts (`StringUtils` etc.) of the source code for this
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*/

package org.apache.shiro.authz;

/**

* A Permission represents the ability to perform an action or access a resource. A Permission is the most
* granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
* models are built.

* <p/>

* It is important to understand a Permission instance only represents functionality or access - it does not grant it.
* Granting access to an application functionality or a particular resource is done by the application's security
* configuration, typically by assigning Permissions to users, roles and/or groups.

* <p/>

* Most typical systems are what the Shiro team calls role-based in nature, where a role represents
* common behavior for certain user types. For example, a system might have an Administrator role, a
* User or Guest roles, etc.

* <p/>

* But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
* role names in your code. In this environment, roles themselves aren't aren't very useful. What matters is what
* permissions are assigned to these roles.

* <p/>

* Under this paradigm, permissions are immutable and reflect an application's raw functionality
* (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
* to be dynamic: because Permissions represent raw functionality and only change when the application's
* source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
* groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of
* associating Permissions to roles, users, and groups in some way.

* <p/>

* Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of
* Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive
* association, the user 'has' the permissions in their roles. There are numerous variations on this theme
* (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn
* have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles,
* and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security
* model.

* <p/>

* A benefit to Shiro is that, although it assumes most systems are based on these types of static role or

- * dynamic role w/ permission schemes, it does not require a system to model their security data this way - all
- * Permission checks are relegated to { @link org.apache.shiro.realm.Realm } implementations, and only those
- * implementations really determine how a user 'has' a permission or not. The Realm could use the semantics described
- * here, or it could utilize some other mechanism entirely - it is always up to the application developer.
- * <p/>
- * Shiro provides a very powerful default implementation of this interface in the form of the
- * { @link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission }. We highly recommend that
- you
- * investigate this class before trying to implement your own <code>Permission</code>s.
- *
- * @see org.apache.shiro.authz.permission.WildcardPermission WildcardPermission
- * @since 0.2
- */

```
public interface Permission {
```

```
/**
```

```
 * Returns { @code true } if this current instance <em>implies</em> all the functionality and/or resource access
 * described by the specified { @code Permission } argument, { @code false } otherwise.
```

```
 * <p/>
```

```
 * <p>That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality
 * and/or resource access described by the given { @code Permission } argument. Yet another way of saying this
 * would be:
```

```
 * <p/>
```

```
 * <p>If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code> ,
 * then any Subject granted { @code permission1 } would have ability greater than or equal to that defined by
 * { @code permission2}.
```

```
 *
```

```
 * @param p the permission to check for behavior/functionality comparison.
```

```
 * @return { @code true } if this current instance <em>implies</em> all the functionality and/or resource access
 *     described by the specified { @code Permission } argument, { @code false } otherwise.
```

```
 */
```

```
 boolean implies(Permission p);
```

```
}
```

```
/*
```

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*/

```
package org.apache.shiro.authz.permission;
```

```
import org.apache.shiro.authz.Permission;  
import org.apache.shiro.util.CollectionUtils;
```

```
import java.io.Serializable;  
import java.util.ArrayList;  
import java.util.LinkedHashSet;  
import java.util.List;  
import java.util.Set;
```

```
/**
```

* A `WildcardPermission` is a very flexible permission construct supporting multiple levels of
* permission matching. However, most people will probably follow some standard conventions as explained below.

* `<p/>`

* `<h3>Simple Usage</h3>`

* `<p/>`

* In the simplest form, `WildcardPermission` can be used as a simple permission string. You could
grant a

* user an "editNewsletter" permission and then check to see if the user has the editNewsletter

* permission by calling

* `<p/>`

* `subject.isPermitted("editNewsletter")`

* `<p/>`

* This is (mostly) equivalent to

* `<p/>`

* `subject.isPermitted(new WildcardPermission("editNewsletter"))`

* `<p/>`

* but more on that later.

* `<p/>`

* The simple permission string may work for simple applications, but it requires you to have permissions like

* `"viewNewsletter"`, `"deleteNewsletter"`,

* `"createNewsletter"`, etc. You can also grant a user `"*"` permissions

* using the wildcard character (giving this class its name), which means they have *all* permissions. But

* using this approach there's no way to just say a user has "all newsletter permissions".

* `<p/>`

* For this reason, `WildcardPermission` supports multiple *levels* of permissioning.

* `<p/>`

* `<h3>Multiple Levels</h3>`

* `<p/>`

* `WildcardPermission` also supports the concept of multiple *levels*. For example, you could

* restructure the previous simple example by granting a user the permission `"newsletter:edit"`.

* The colon in this example is a special character used by the `WildcardPermission` that delimits the

* next token in the permission.

* <p/>

* In this example, the first token is the domain that is being operated on

* and the second token is the action being performed. Each level can contain multiple values. So you

* could simply grant a user the permission <code>"newsletter:view,edit,create"</code> which gives them

* access to perform <code>view</code>, <code>edit</code>, and <code>create</code> actions in the

<code>newsletter</code>

* domain. Then you could check to see if the user has the <code>"newsletter:create"</code>

* permission by calling

* <p/>

* <code>subject.isPermitted("newsletter:create")</code>

* <p/>

* (which would return true).

* <p/>

* In addition to granting multiple permissions via a single string, you can grant all permission for a particular

* level. So if you wanted to grant a user all actions in the <code>newsletter</code> domain, you could simply give

* them <code>"newsletter:*"</code>. Now, any permission check for <code>"newsletter:XXX"</code>

* will return <code>true</code>. It is also possible to use the wildcard token at the domain level (or both): so you

* could grant a user the <code>"view"</code> action across all domains <code>"*:view"</code>.

* <p/>

* <h3>Instance-level Access Control</h3>

* <p/>

* Another common usage of the <code>WildcardPermission</code> is to model instance-level Access Control

Lists.

* In this scenario you use three tokens - the first is the domain, the second is the action, and

* the third is the instance you are acting on.

* <p/>

* So for example you could grant a user <code>"newsletter:edit:12,13,18"</code>. In this example, assume

* that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters

* <code>12</code>, <code>13</code>, and <code>18</code>. This is an extremely powerful way to express

permissions,

* since you can now say things like <code>"newsletter*:13"</code> (grant a user all actions for newsletter

* <code>13</code>), <code>"newsletter:view,create,edit:*"</code> (allow the user to

* <code>view</code>, <code>create</code>, or <code>edit</code> any newsletter), or

* <code>"newsletter*:*</code> (allow the user to perform any action on any newsletter).

* <p/>

* To perform checks against these instance-level permissions, the application should include the instance ID in the

* permission check like so:

* <p/>

* <code>subject.isPermitted("newsletter:edit:13")</code>

* <p/>

* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that

* this could be used in your application. However, the Shiro team likes to standardize some common usages shown

* above to help people get started and provide consistency in the Shiro community.

*

* @since 0.9

* /

```
public class WildcardPermission implements Permission, Serializable {
```

```

//TODO - JavaDoc methods

/*-----
|   C O N S T A N T S   |
=====*/
protected static final String WILDCARD_TOKEN = "*";
protected static final String PART_DIVIDER_TOKEN = ":";
protected static final String SUBPART_DIVIDER_TOKEN = ",";
protected static final boolean DEFAULT_CASE_SENSITIVE = false;

/*-----
| I N S T A N C E   V A R I A B L E S |
=====*/
private List<Set<String>> parts;

/*-----
|   C O N S T R U C T O R S   |
=====*/
/**
 * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
 * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
 * <p/>
 * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
 * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
 * {@code UserPermission}, {@code SystemPermission}, {@code PrinterPermission}, etc. If you want such
type-safe
 * permission usage, consider subclassing the {@link DomainPermission DomainPermission} class for your
needs.
 */
protected WildcardPermission() {
}

public WildcardPermission(String wildcardString) {
    this(wildcardString, DEFAULT_CASE_SENSITIVE);
}

public WildcardPermission(String wildcardString, boolean caseSensitive) {
    setParts(wildcardString, caseSensitive);
}

protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    if (wildcardString == null || wildcardString.trim().length() == 0) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission
strings are properly formatted.");
    }
}

```

```

    }

    wildcardString = wildcardString.trim();

    List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

    this.parts = new ArrayList<Set<String>>();
    for (String part : parts) {
        Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));
        if (!caseSensitive) {
            subparts = lowercase(subparts);
        }
        if (subparts.isEmpty()) {
            throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure
permission strings are properly formatted.");
        }
        this.parts.add(subparts);
    }

    if (this.parts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission
strings are properly formatted.");
    }
}

private Set<String> lowercase(Set<String> subparts) {
    Set<String> lowerCasedSubparts = new LinkedHashSet<String>(subparts.size());
    for (String subpart : subparts) {
        lowerCasedSubparts.add(subpart.toLowerCase());
    }
    return lowerCasedSubparts;
}

/*-----
| ACCESSORS / MODIFIERS |
=====*/
protected List<Set<String>> getParts() {
    return this.parts;
}

/*-----
|     METHODS     |
=====*/

public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }
}

```

```

    }

    WildcardPermission wp = (WildcardPermission) p;

    List<Set<String>> otherParts = wp.getParts();

    int i = 0;
    for (Set<String> otherPart : otherParts) {
        // If this permission has less parts than the other permission, everything after the number of parts contained
        // in this permission is automatically implied, so return true
        if (getParts().size() - 1 < i) {
            return true;
        } else {
            Set<String> part = getParts().get(i);
            if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
                return false;
            }
            i++;
        }
    }

    // If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
    for (; i < getParts().size(); i++) {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN)) {
            return false;
        }
    }

    return true;
}

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(":");
        }
        buffer.append(part);
    }
    return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
}

```

```

    return false;
}

public int hashCode() {
    return parts.hashCode();
}

}
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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

/**
 * <tt>PermissionResolver</tt> implementation that returns a new { @link WildcardPermission
 * WildcardPermission}
 * based on the input string.
 *
 * @since 0.9
 */
public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * Returns a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>.
     *
     * @param permissionString the permission string to convert to a { @link Permission Permission} instance.
     * @return a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>
     */
}

```

```

    public Permission resolvePermission(String permissionString) {
        return new WildcardPermission(permissionString);
    }
}
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 */
package org.apache.shiro.authz.permission;

import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import org.junit.Test;

/**
 * @since 0.9
 */
public class WildcardPermissionTest {

    @Test(expected = IllegalArgumentException.class)
    public void testNull() {
        new WildcardPermission(null);
    }

    @Test(expected = IllegalArgumentException.class)
    public void testEmpty() {
        new WildcardPermission("");
    }

    @Test(expected = IllegalArgumentException.class)
    public void testBlank() {
        new WildcardPermission(" ");
    }
}

```

```

@Test(expected = IllegalArgumentException.class)
public void testOnlyDelimiters() {
    new WildcardPermission("::,::,::");
}

@Test
public void testNamed() {
    WildcardPermission p1, p2;

    // Case insensitive, same
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("something");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different case
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("SOMETHING");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different word
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("else");
    assertFalse(p1.implies(p2));
    assertFalse(p2.implies(p1));

    // Case sensitive same
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("BLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case sensitive, different case
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("bLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case sensitive, different word
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("whatwhat", false);
    assertFalse(p1.implies(p2));
    assertFalse(p2.implies(p1));
}

```

```

@Test
public void testLists() {
    WildcardPermission p1, p2, p3;

    p1 = new WildcardPermission("one,two");
    p2 = new WildcardPermission("one");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two,three");
    p2 = new WildcardPermission("one,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two:one,two,three");
    p2 = new WildcardPermission("one:three");
    p3 = new WildcardPermission("one:two,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p3));
    assertTrue(p3.implies(p2));

    p1 = new WildcardPermission("one,two,three:one,two,three:one,two");
    p2 = new WildcardPermission("one:three:two");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one");
    p2 = new WildcardPermission("one:two,three,four");
    p3 = new WildcardPermission("one:two,three,four:five:six:seven");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p1));
    assertFalse(p3.implies(p1));
    assertTrue(p2.implies(p3));
}

@Test
public void testWildcards() {
    WildcardPermission p1, p2, p3, p4, p5, p6, p7, p8;

    p1 = new WildcardPermission("*");
    p2 = new WildcardPermission("one");
    p3 = new WildcardPermission("one:two");
    p4 = new WildcardPermission("one,two:three,four");
    p5 = new WildcardPermission("one,two:three,four,five:six:seven,eight");

```

```
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
```

```
p1 = new WildcardPermission("newsletter:*");
p2 = new WildcardPermission("newsletter:read");
p3 = new WildcardPermission("newsletter:read,write");
p4 = new WildcardPermission("newsletter:*");
p5 = new WildcardPermission("newsletter:*:*");
p6 = new WildcardPermission("newsletter:*:read");
p7 = new WildcardPermission("newsletter:write:*");
p8 = new WildcardPermission("newsletter:read,write:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));
```

```
p1 = new WildcardPermission("newsletter:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));
```

```
p1 = new WildcardPermission("newsletter:*:*:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p3));
assertTrue(p1.implies(p4));
assertTrue(p1.implies(p5));
assertTrue(p1.implies(p6));
assertTrue(p1.implies(p7));
assertTrue(p1.implies(p8));
```

```
p1 = new WildcardPermission("newsletter:*:read");
p2 = new WildcardPermission("newsletter:123:read");
p3 = new WildcardPermission("newsletter:123,456:read,write");
p4 = new WildcardPermission("newsletter:read");
p5 = new WildcardPermission("newsletter:read,write");
p6 = new WildcardPermission("newsletter:123:read:write");
assertTrue(p1.implies(p2));
assertFalse(p1.implies(p3));
```

```

    assertFalse(p1.implies(p4));
    assertFalse(p1.implies(p5));
    assertTrue(p1.implies(p6));

    p1 = new WildcardPermission("newsletter:*:read:*");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p6));

}

}

```

1.250 istack-commons 3.0.7

1.251 scala-compiler 2.10.0

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1.252 cas-server-integration-restlet 3.5.2

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1.253 cxf-rt-security 2.7.3

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1.255 log4j-api 2.8

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1.265 cxf-rt-frontend-js 2.7.3

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1.266 scala 2.10.0

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1.268 xmlunit 1.2.0

1.269 velocity 1.7c

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1.270 asm 4.0

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1.272 jaeger-core 0.23.0

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1.278 soap-api 1.3.0

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1.280 cxf-rt-bindings-xml 2.7.3

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1.281 geronimo-jaxws 1.0

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*/

package org.apache.cxf.rs.security.oauth2.common;

/**

* Base permission description
* @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;  
    }  
}
```

/**

* 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 in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
 * @param isDefault true if the permission has been allocated by default
 */
public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}

```

1.288 cxf-tools-common 2.7.3

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1.290 hsqldb-jdbc 2.3.0

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1.291 tomcat 8.0.53

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- jsp_2_2.xsd
- web-app_3_0.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd

- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd

- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

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1.292 json-simple 1.1.1

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1.293 spring-security-acl 3.0.3

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 */
package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 *
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    //~ Static fields/initializers
    =====
    ===

    char RESERVED_ON = '~';
    char RESERVED_OFF = '.';
    String THIRTY_TWO_RESERVED_OFF = ".....";

    //~ Methods
    =====
    =====

    /**
     * Returns the bits that represents the permission.
     *
     * @return the bits that represent the permission
     */
    int getMask();

    /**
     * Returns a 32-character long bit pattern <code>String</code> representing this permission.
     * <p>
     * Implementations are free to format the pattern as they see fit, although under no circumstances may

```

* {@link #RESERVED_OFF} or {@link #RESERVED_ON} be used within the pattern. An exemption is in the case of

- * {@link #RESERVED_OFF} which is used to denote a bit that is off (clear).
- * Implementations may also elect to use {@link #RESERVED_ON} internally for computation purposes,
- * although this method may not return any `String` containing {@link #RESERVED_ON}.
- * `<p>`
- * The returned String must be 32 characters in length.
- * `<p>`
- * This method is only used for user interface and logging purposes. It is not used in any permission calculations. Therefore, duplication of characters within the output is permitted.
- *
- * @return a 32-character bit pattern
- */

```
String getPattern();
}
```

1.294 jackson 2.7.9

1.295 antlr-runtime 4.5.1

1.296 object-cache-api 0.8.4

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1.297 commons-digester 1.8

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1.303 system-api 1.1.0

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1.305 jsp-support 6.0.20.S2

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1.306 jradius-core 1.1.4

1.307 object-model 1.1

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1.308 easyrules-quartz 2.1.0

1.309 aporeo-cas 3.5.2.1

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1.310 spring-test 3.2.10

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1.312 cxf-tools-wsdlt-core 2.7.3

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1.317 cxf-rt-frontend-jaxrs 2.7.3

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1.319 commons-beanutils 1.8.3

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1.320 datatype 1.0.0

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1.321 cxf-rt-rs-security-oauth 2.7.3

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*/

```
package org.apache.cxf.rs.security.oauth.data;
```

```
/**
```

```
* Base permission description which is visible to
```

```
* authorization handlers
```

```
* @see OAuthAuthorizationData
```

```
*/
```

```
public class Permission {
```

```
    private String permission;
```

```
    private String description;
```

```
    private boolean isDefault;
```

```
    public Permission() {
```

```
    }
```

```
    public Permission(String permission, String description) {
```

```
        this.description = description;
```

```
        this.permission = permission;
```

```
    }
```

```
    public String getDescription() {
```

```
        return description;
```

```
    }
```

```
    public void setDescription(String description) {
```

```
        this.description = description;
```

```
    }
```

```
    public String getPermission() {
```

```
        return permission;
```

```
    }
```

```
    public void setPermission(String permission) {
```

```
        this.permission = permission;
```

```
    }
```

```
/**
```

```
* Indicates that this permission has been allocated by default.
```

```
* Authorization View handlers may use this property in order to restrict
```

```
* the list of scopes which may be refused to non-default scopes only
```

```
* @param isDefault
```

```
*/  
public void setDefault(boolean value) {  
    this.isDefault = value;  
}  
  
public boolean isDefault() {  
    return isDefault;  
}  
}
```

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1.322 commons-http-client 3.1.0

1.323 yang-model-api 0.8.4

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1.332 tomcat-el-api 8.0.53

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1.333 hibernatejpa2.0api 1.0.0

1.334 easyrules-spring 2.1.0

1.335 cxf-tools-wsdlto-databinding-jaxb 2.7.3

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1.337 lucene 3.6.0

1.338 jul-to-slf4j 1.7.21

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1.339 geronimo-spec-j2ee-management 1.0

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1.340 commons-jxpath 1.3

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1.341 xpp3-min 1.1.4c

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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).

1.342 bcel 5.1.0

1.343 rpc-api 1.1.0

1.344 opencensus-api 0.10.0

1.345 cxf-bundle 2.7.3

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1.346 gson 2.2.4

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1.347 geronimo-stax-api 1.0.1

1.348 jackson-databind 2.7.9.6

1.348.1 Available under license :

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1.350 ant-launcher 1.7.0

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The specification of DOM Level 2's various parts is at:

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<http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/>
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<http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/>
<http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/>

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
  <html lang="en">
    <!-- GENERATED FILE, DO NOT EDIT, EDIT THE XML FILE IN xdocs INSTEAD! -->
    <head>
      <META http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
      <title>Apache Ant - Legal</title>
      <link type="text/css" href="/page.css" rel="stylesheet">
      <meta name="author" content="Jon S. Stevens">
      <meta name="email" content="jon@latchkey.com">
    </head>

    <body>
      <p class="navpath">
        <script src="/breadcrumbs.js" language="JavaScript" type="text/javascript"></script>
      </p>

      <div class="logobar">
        <table width="100%" border="0" cellspacing="0" cellpadding="0">
          <tr>
            <td align="left"></td>
            <td align="center" width="100%"></td>
            <td align="right">
              <form target="_blank" onsubmit="q.value = query.value + ' site:ant.apache.org'"
action="http://www.google.com/search" method="get">
                <table summary="search" border="0" cellspacing="0" cellpadding="0" bgcolor="#4C6C8F">
                  <tr>
                    <td colspan="3"></td>
                  </tr>
                  <tr>
                    <td></td>
                    <td nowrap="nowrap" class="searchcaption">
                      <input name="q" type="hidden">
                      <input size="15" id="query" type="text">
                      
                      <input name="Search" value="Search" type="submit">
                      <br>
                      the Apache Ant site
                    </td>
                    <td></td>
                  </tr>
                </table>
            </td>
          </tr>
        </table>
      </div>
    </body>
  </html>
```

```

<tr>
  <td></td>
  <td></td>
  <td></td>
</tr>
</table>
</form>
</td>
</tr>
</table>
</div>

```

```

<div class="tab">
<table summary="tab bar" border="0" cellpadding="0" cellspacing="0">
  <tr>
    <td width="8"></td><td
valign="bottom">
      <table summary="selected tab" style="height: 1.5em" border="0" cellpadding="0" cellspacing="0">
        <tr>
          <td valign="top" width="5" bgcolor="#4C6C8F"></td><td valign="middle" bgcolor="#4C6C8F"><font color="#ffffff" size="2"
face="Arial, Helvetica, Sans-serif"><b>Home</b></font></td><td valign="top" width="5"
bgcolor="#4C6C8F"></td>
          </tr>
        </table>
      </td>
    <td width="5"></td><td
valign="bottom">
      <table summary="non selected tab" style="height: 1.4em" border="0" cellpadding="0"
cellspacing="0">
        <tr>
          <td valign="top" width="5" bgcolor="#B2C4E0"></td><td valign="middle" bgcolor="#B2C4E0"><a href="/projects/index.html"><font
size="2" face="Arial, Helvetica, Sans-serif">Projects</font></a></td><td valign="top" width="5"
bgcolor="#B2C4E0"></td>
          </tr>
        </table>
      </td>
    </tr>
  </table>
</div>

```

```

<div class="bluebar"></div>

```

```

<div class="menucontainer">

```

```

<div class="menu">

```

```

<ul>

```

```
<li class="menuheader">Apache Ant
<ul>
  <li>
    <a href="/index.html">Welcome</a>
  </li>
  <li>
    <a href="/license.html">License</a>
  </li>
  <li>
    <a href="/antnews.html">News</a>
  </li>
</ul>
</li>
<li class="menuheader">Documentation
<ul>
  <li>
    <a href="/manual/index.html">Manual</a>
  </li>
  <li>
    <a href="/projects.html">Related Projects</a>
  </li>
  <li>
    <a href="/external.html">External Tools and Tasks</a>
  </li>
  <li>
    <a href="/resources.html">Resources</a>
  </li>
  <li>
    <a href="/faq.html">Frequently Asked Questions</a>
  </li>
  <li>
    <a href="http://wiki.apache.org/ant/FrontPage">Wiki</a>
  </li>
  <li>
    <a href="/problems.html">Having Problems?</a>
  </li>
</ul>
</li>
<li class="menuheader">Download
<ul>
  <li>
    <a href="http://ant.apache.org/bindownload.cgi">Binary Distributions</a>
  </li>
  <li>
    <a href="http://ant.apache.org/srcdownload.cgi">Source Distributions</a>
  </li>
</ul>
</li>
```

```

    <li class="menuheader">Contributing
  <ul>
    <li>
      <a href="/mail.html">Mailing Lists</a>
    </li>
    <li>
      <a href="/svn.html">Subversion Repositories</a>
    </li>
    <li>
      <a href="/nightlies.html">Nightly Builds</a>
    </li>
    <li>
      <a href="/bugs.html">Bug Database</a>
    </li>
    <li>
      <a href="http://www.apache.org/foundation/contributing.html">Donations</a>
    </li>
  </ul>
</li>
  <li class="menuheader">Project Management
  <ul>
    <li>
      <a href="/contributors.html">Contributors</a>
    </li>
    <li>
      <a href="/mission.html">Apache Ant Mission</a>
    </li>
    <li>
      <a href="/bylaws.html">Project Bylaws</a>
    </li>
    <li>
      <span class="sel">Legal</span>
    </li>
  </ul>
</li>
</ul>
</div>


</div>
  <div class="lightbluebar">&nbsp;</div>
<div class="main">
<div class="content">
  <h1 class="title">Legal</h1>
  <h3 class="section">
    <a name="Legal Stuff They Make Us Say"></a>
    Legal Stuff They Make Us Say
  </h3>

```

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webmaster

xml-commons/java/external/README.sax.txt \$Id: README.sax.txt 225954 2002-01-31 23:26:48Z curcuru \$

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David Megginson, david@megginson.com

2000-05-05

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
  <html lang="en">
  <!-- GENERATED FILE, DO NOT EDIT, EDIT THE XML FILE IN xdocs INSTEAD! -->
  <head>
  <META http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
  <title>Apache Ant - Contributors</title>
  <link type="text/css" href="/page.css" rel="stylesheet">
  <meta name="author" content="Apache Ant PMC">
  <meta name="email" content="">
  </head>

  <body>
  <p class="navpath">
  <script src="/breadcrumbs.js" language="JavaScript" type="text/javascript"></script>
  </p>

  <div class="logobar">
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  <td align="left"></td>
  <td align="center" width="100%"></td>
  <td align="right">
  <form target="_blank" onsubmit="q.value = query.value + ' site:ant.apache.org'"
action="http://www.google.com/search" method="get">
  <table summary="search" border="0" cellspacing="0" cellpadding="0" bgcolor="#4C6C8F">
  <tr>
  <td colspan="3"></td>
  </tr>
  <tr>
  <td></td>
  <td nowrap="nowrap" class="searchcaption">
  <input name="q" type="hidden">
  <input size="15" id="query" type="text">
  
  <input name="Search" value="Search" type="submit">
  <br>
  the Apache Ant site
  </td>
  <td></td>
  </tr>
  <tr>
  <td>
```

```

        <td></td>
        <td></td>
        <td></td>
    </tr>
</table>
</form>
</td>
</tr>
</table>
</div>

    <div class="tab">
<table summary="tab bar" border="0" cellpadding="0" cellspacing="0">
    <tr>
        <td width="8"></td><td
valign="bottom">
        <table summary="selected tab" style="height: 1.5em" border="0" cellpadding="0" cellspacing="0">
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                <td valign="top" width="5" bgcolor="#4C6C8F"></td><td valign="middle" bgcolor="#4C6C8F"><font color="#ffffff" size="2"
face="Arial, Helvetica, Sans-serif"><b>Home</b></font></td><td valign="top" width="5"
bgcolor="#4C6C8F"></td>
            </tr>
        </table>
    </td>
        <td width="5"></td><td
valign="bottom">
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cellspacing="0">
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                <td valign="top" width="5" bgcolor="#B2C4E0"></td><td valign="middle" bgcolor="#B2C4E0"><a href="/projects/index.html"><font
size="2" face="Arial, Helvetica, Sans-serif">Projects</font></a></td><td valign="top" width="5"
bgcolor="#B2C4E0"></td>
            </tr>
        </table>
    </td>
    </tr>
</table>
</div>

<div class="bluebar"></div>

<div class="menucontainer">

<div class="menu">
<ul>
    <li class="menuheader">Apache Ant

```

```
<ul>
  <li>
    <a href="/index.html">Welcome</a>
  </li>
  <li>
    <a href="/license.html">License</a>
  </li>
  <li>
    <a href="/antnews.html">News</a>
  </li>
</ul>
</li>
<li class="menuheader">Documentation
<ul>
  <li>
    <a href="/manual/index.html">Manual</a>
  </li>
  <li>
    <a href="/projects.html">Related Projects</a>
  </li>
  <li>
    <a href="/external.html">External Tools and Tasks</a>
  </li>
  <li>
    <a href="/resources.html">Resources</a>
  </li>
  <li>
    <a href="/faq.html">Frequently Asked Questions</a>
  </li>
  <li>
    <a href="http://wiki.apache.org/ant/FrontPage">Wiki</a>
  </li>
  <li>
    <a href="/problems.html">Having Problems?</a>
  </li>
</ul>
</li>
<li class="menuheader">Download
<ul>
  <li>
    <a href="http://ant.apache.org/bindownload.cgi">Binary Distributions</a>
  </li>
  <li>
    <a href="http://ant.apache.org/srcdownload.cgi">Source Distributions</a>
  </li>
</ul>
</li>
<li class="menuheader">Contributing
```

```

<ul>
  <li>
    <a href="/mail.html">Mailing Lists</a>
  </li>
  <li>
    <a href="/svn.html">Subversion Repositories</a>
  </li>
  <li>
    <a href="/nightlies.html">Nightly Builds</a>
  </li>
  <li>
    <a href="/bugs.html">Bug Database</a>
  </li>
  <li>
    <a href="http://www.apache.org/foundation/contributing.html">Donations</a>
  </li>
</ul>
</li>
<li class="menuheader">Project Management
<ul>
  <li>
    <span class="sel">Contributors</span>
  </li>
  <li>
    <a href="/mission.html">Apache Ant Mission</a>
  </li>
  <li>
    <a href="/bylaws.html">Project Bylaws</a>
  </li>
  <li>
    <a href="/legal.html">Legal</a>
  </li>
</ul>
</li>
</ul>
</div>


</div>
<div class="lightbluebar">&nbsp;</div>
<div class="main">
<div class="content">
<h1 class="title">Contributors</h1>
  <h3 class="section">
    <a name="Project Management Committee"></a>
    Project Management Committee
  </h3>
    <h4 class="subsection">

```


Active Members

</h4>

<p>

Bruce Atherton (bruce at callenish.com - http://www.callenish.com/~bruce)

Currently a Systems Architect with Avue Technologies, Bruce has been working with Java since version 1.0a2. He also claims to be one of the first people to mark up a FAQ with HTML, for a web browser of the distant past called Cello.

</p>

<p>

Stephane Bailliez

</p>

<p>

Matt Benson

</p>

<p>

Stefan Bodewig (stefan.bodewig at freenet.de - http://stefan.samaflost.de/)

</p>

<p>

Dominique Devienne (ddevienne at apache.org)

Dominique has been involved non-stop with the Ant user community since the 1.4 days, trying without success to answer posts as well or as often as Diane Holt after she left the user list. He is opinionated, always striving for the best possible design. While at Landmark Graphics, he designed and implemented large Ant/CppTasks builds for mixed Java/C++ projects.

</p>

<p>

Erik Hatcher (ehatcher at apache.org)

Erik is the co-author of Java Development with Ant and speaks on Ant and other topics at No Fluff, Just Stuff symposiums as well as other venues. Erik is the President of eHatcher Solutions, Inc.

</p>

<p>

Martijn (J.M.) Kruithof (ant at kruithof xs4all nl)

Martijn Kruithof is a system engineer working with and on Java products in a telecommunication network setting.

</p>

<p>

Antoine Levy-Lambert (antoine at apache.org)

Antoine is working as a software engineer for

Ariel Partners.

He is specialized in builds and automation of deployment processes.

</p>

<p>

Steve Loughran

</p>

<p>

Conor MacNeill (conor at cortexebusiness.com.au)

Conor is a senior developer at Cortex eBusiness, where he develops J2EE based systems. In his spare time he helps with the development of the Ant build tool. He is also serving as the Chairman of this PMC.

</p>

<p>

Jan Matrne (jhm at apache.org)

Jan is consultant for OOA/D in the computer centre of the government of Northrhine Westfalia / Germany.

</p>

<p>

Peter Reilly

</p>

<p>

Sam Ruby

(rubys at us.ibm.com)

Sam takes a perverse pleasure in integrating disparate things. He is a member of the PHP group, Apache XML PMC, Apache sponsor for the xml-soap subproject and convener of ECMA TC39 TG3.

</p>

<p>

Magesh Umasankar (umagesh at apache.org)

Magesh is a lead software developer at

Manugistics, where

he is responsible for some of the Revenue Optimization solutions.

</p>

<p>

Christoph Wilhelms (christoph.wilhelms at t-online.de)

Christoph works as software engineer at the world's biggest travel company
TUI. His passion are all UI related things so
at the Ant-Project he takes care of Antidote - the Ant GUI.

</p>

<h4 class="subsection">

Emeritus Members

</h4>

<p>

James Duncan Davidson (duncan at x180.net - http://x180.net/)

By day, Duncan works in the Open Source Program Office at Sun
Microsystems where he helps various Open Source efforts within Sun
"do the right thing". Previously at Sun he was responsible
for the Servlet API Specifications 2.1 and 2.2 as well as the Java API
for XML Parsing 1.0 and was the original author of Tomcat and Ant. He
was one of the rabble-rousers within Sun that helped make the Jakarta
Project a reality and served as the first Chairman of the Jakarta PMC.

</p>

<p>

Diane Holt

</p>

<p>

Donald Leslie

</p>

<p>

Costin Monolache

</p>

<p>

Jon Skeet

</p>

<h3 class="section">

Committers

</h3>

<h4 class="subsection">

Active Committers

</h4>

<p>

Steve Cohen

</p>

<p>

Jose Alberto Fernandez

</p>

<p>

Jesse Glick (jesse dot glick at sun dot com)

Jesse has been using Java since 1998 and joined Sun Microsystems as part of the company that produced the NetBeans IDE. After discovering Ant in the 1.2 days, he wrote most of NetBeans' Ant integration. Recently he has worked on the NetBeans 4.0 project system, based heavily on Ant as a build tool.

</p>

<p>

Kevin Jackson (foamino at gmail.com)

</p>

<p>

Alexey Solofnenko (trelony at gmail.com)

</p>

<h4 class="subsection">

Emeritus Committers

</h4>

<p>

Preston Bannister

</p>

<p>

Nick Davis

</p>

<p>

Darrell DeBoer

</p>

<p>

Peter Donald (peter at apache.org)

Peter is an avid java developer who is active in the Avalon and Ant projects. In his spare time he develops a distributed virtual environment (ie military simulator or 3D game) using java technologies.

</p>

<p>

Danno Ferrin (shemnon at yahoo.com)

Danno has been programming in Java since Summer 96. Danno wrote a JSP engine on his own and released it the very same day Jakarta was announced at JavaOne. Since then, he decided to join the Jakarta project in a spirit of co-operation over competition.

</p>

<p>

Simeon H.K. Fitch (simeon.fitch at mseedsoft.com)

Simeon is owner of Mustard Seed Software, which specializes in developing distributed applications and user interfaces for the science, engineering, and research oriented clients. He is the lead architect and developer for Antidote, the GUI for Ant.

</p>

<p>

Thomas Haas (tha at whitestein.com)

Tom is interested in distributed systems, Java middleware and worked on an implementation of the JMS specification. At Whitestein Technologies he is working on bringing software agent technology and J2EE together.

</p>

<p>

Jason Hunter (jh at servlets.com)

Jason is author of "Java Servlet Programming" (O'Reilly) and publisher of <http://www.servlets.com/>.

He works at <http://www.collab.net/> CollabNet.

</p>

<p>

Justyna Horwat (horwat at apache.org)

</p>

<p>

Arun Jamwal

</p>

<p>

Arnout J. Kuiper (ajkuiper at planet.nl)

Arnout J. Kuiper is a Java Architect with the Sun Java Center at Sun Microsystems. His main focus is web-related technologies on the Java platform (J2EE, XML, ...).

</p>

<p>

Stefano Mazzocchi (stefano at apache.org)

Stefano is addicted to software design, Java programming and open development. In the last 4 years, he has contributed way too much time to Apache, especially on JServ, JMeter, Avalon, JAMES, Ant, Cocoon and helping to bring more projects into Apache-land, such as FOP, Batik, POI and Xindice. The problem is that he's too picky to be satisfied :-)

</p>

<p>

Glenn McAllister (glenn at somanetworks.com)

Glenn McAllister is a software developer at SOMA Networks, was formerly the same at IBM (plus tech writer plus build guy), and does some writing on the side for the VADD Technical Journal.

</p>

<p>

Craig McClanahan (Craig.McClanahan at eng.sun.com)

Craig was involved in the Apache JServ project, focused on implementing a next generation architecture and feature set for the core servlet engine. He has recently joined Sun as technical lead for the servlet and JSP reference implementation.

</p>

<p>

Adam Murdoch

</p>

<p>

Harish Prabhandham (harishp at onebox.com)

Harish is an engineer with the J2EE team at Sun, primarily responsible for implementing security in the J2EE Reference Implementation (RI). He integrated various technologies including servlet/JSP implementations from Tomcat into the J2EE RI. These days, he hacks PHP code during the day.

</p>

<p>

Nico Seessle

</p>

<p>

Gal Shachor (shachor at il.ibm.com)

Gal Shachor is a research staff member at IBM. He wrote his first Servlet container (ServletExpress) at the beginning of 1997. Later on ServletExpress (and Gal) merged into WebSphere, and Gal participated in the development of WebSphere 1, 2 and 3.

</p>

<p>

Jon S. Stevens (jon at collab.net)

Jon is a Co-Founder of Clear Ink Corp and recently left to work on Scarab a next generation Open Source Java Servlet based Issue/Bug tracking system for CollabNet. He is an active developer of the Apache JServ Servlet Engine for the Apache Web Server and Co-Author of the Element Construction Set as well as the web application framework, Turbine.

</p>

<p>

Jesse Stockall

</p>

<p>

James Todd (jwttodd at pacbell.net)

James has developed real time customer oriented apps for roughly 10 years the last 5 of which have predominately been fully integrated, front and back, extraNet implementations which have been based on Apache, Java and Tcl.

</p>

<p>

Anil Vijendran (akv at eng.sun.com)

Anil Vijendran is the principal developer of the JSP engine in Tomcat. He's done some pretty scary things in his past life -- implementing the CORBA IDL to C++ 2.0 mapping, skydiving, IDL to Java compilers, Object Databases (SIGSEV, you da man!) for C++, Java ORB and EJB runtime environments -- in that order.

</p>

<h3 class="section">

Logo

</h3>

<p>Ant's logo is the result of a logo contest, it has been designed by</p>

<p>

Nick King

</p>

</div>

</div>

<p class="copyright">

<script type="text/javascript" language="JavaScript"><!--

document.write(" - "+"Last Published: " + document.lastModified);

// -->

</script>

</p>

</body>

</html>

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David Megginson, david@megginson.com

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Last revised by Reagle \$Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) \$

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
  <html lang="en">
  <!-- GENERATED FILE, DO NOT EDIT, EDIT THE XML FILE IN xdocs INSTEAD! -->
  <head>
  <META http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
  <title>Apache Ant - License</title>
  <link type="text/css" href="/page.css" rel="stylesheet">
  <meta name="author" content="The Apache Software Foundation">
  <meta name="email" content="">
  </head>

  <body>
  <p class="navpath">
  <script src="/breadcrumbs.js" language="JavaScript" type="text/javascript"></script>
  </p>

  <div class="logobar">
  <table width="100%" border="0" cellspacing="0" cellpadding="0">
  <tr>
  <td align="left"></td>
  <td align="center" width="100%"></td>
  <td align="right">
  <form target="_blank" onsubmit="q.value = query.value + ' site:ant.apache.org'"
action="http://www.google.com/search" method="get">
  <table summary="search" border="0" cellspacing="0" cellpadding="0" bgcolor="#4C6C8F">
  <tr>
  <td colspan="3"></td>
  </tr>
  <tr>
  <td></td>
  <td nowrap="nowrap" class="searchcaption">
  <input name="q" type="hidden">
  <input size="15" id="query" type="text">
  
  <input name="Search" value="Search" type="submit">
  <br>
  the Apache Ant site
  </td>
  <td></td>
  </tr>
  <tr>
  <td>
```

```

        <td></td>
        <td></td>
        <td></td>
    </tr>
</table>
</form>
</td>
</tr>
</table>
</div>

```

```

    <div class="tab">
    <table summary="tab bar" border="0" cellpadding="0" cellspacing="0">
    <tr>
        <td width="8"></td><td
valign="bottom">
        <table summary="selected tab" style="height: 1.5em" border="0" cellpadding="0" cellspacing="0">
        <tr>
            <td valign="top" width="5" bgcolor="#4C6C8F"></td><td valign="middle" bgcolor="#4C6C8F"><font color="#ffffff" size="2"
face="Arial, Helvetica, Sans-serif"><b>Home</b></font></td><td valign="top" width="5"
bgcolor="#4C6C8F"></td>
        </tr>
        </table>
    </td>
        <td width="5"></td><td
valign="bottom">
        <table summary="non selected tab" style="height: 1.4em" border="0" cellpadding="0"
cellspacing="0">
        <tr>
            <td valign="top" width="5" bgcolor="#B2C4E0"></td><td valign="middle" bgcolor="#B2C4E0"><a href="/projects/index.html"><font
size="2" face="Arial, Helvetica, Sans-serif">Projects</font></a></td><td valign="top" width="5"
bgcolor="#B2C4E0"></td>
        </tr>
        </table>
    </td>
        </tr>
    </table>
</div>

```

```

<div class="bluebar"></div>

```

```

<div class="menucontainer">

```

```

<div class="menu">

```

```

<ul>

```

```

    <li class="menuheader">Apache Ant

```

```
<ul>
  <li>
    <a href="/index.html">Welcome</a>
  </li>
  <li>
    <span class="sel">License</span>
  </li>
  <li>
    <a href="/antnews.html">News</a>
  </li>
</ul>
</li>
<li class="menuheader">Documentation
<ul>
  <li>
    <a href="/manual/index.html">Manual</a>
  </li>
  <li>
    <a href="/projects.html">Related Projects</a>
  </li>
  <li>
    <a href="/external.html">External Tools and Tasks</a>
  </li>
  <li>
    <a href="/resources.html">Resources</a>
  </li>
  <li>
    <a href="/faq.html">Frequently Asked Questions</a>
  </li>
  <li>
    <a href="http://wiki.apache.org/ant/FrontPage">Wiki</a>
  </li>
  <li>
    <a href="/problems.html">Having Problems?</a>
  </li>
</ul>
</li>
<li class="menuheader">Download
<ul>
  <li>
    <a href="http://ant.apache.org/bindownload.cgi">Binary Distributions</a>
  </li>
  <li>
    <a href="http://ant.apache.org/srcdownload.cgi">Source Distributions</a>
  </li>
</ul>
</li>
<li class="menuheader">Contributing
```

```

<ul>
  <li>
    <a href="/mail.html">Mailing Lists</a>
  </li>
  <li>
    <a href="/svn.html">Subversion Repositories</a>
  </li>
  <li>
    <a href="/nightlies.html">Nightly Builds</a>
  </li>
  <li>
    <a href="/bugs.html">Bug Database</a>
  </li>
  <li>
    <a href="http://www.apache.org/foundation/contributing.html">Donations</a>
  </li>
</ul>
</li>
<li class="menuheader">Project Management
<ul>
  <li>
    <a href="/contributors.html">Contributors</a>
  </li>
  <li>
    <a href="/mission.html">Apache Ant Mission</a>
  </li>
  <li>
    <a href="/bylaws.html">Project Bylaws</a>
  </li>
  <li>
    <a href="/legal.html">Legal</a>
  </li>
</ul>
</li>
</ul>
</div>


</div>
<div class="lightbluebar">&nbsp;</div>
<div class="main">
<div class="content">
<h1 class="title">License</h1>
  <h3 class="section">
    <a name="The Apache Software License Version 2.0"></a>
    The Apache Software License Version 2.0
  </h3>
  <p>The Apache Software License Version 2.0 applies

```

to all releases of Ant starting with ant 1.6.1

```
<pre class="code">/*
```

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*

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```

```

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target="_new">here.</a></p>
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      <pre class="code">

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```

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      The Apache Software License, Version 1.1
      </h3>
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included.</p>

```

```

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*/
</pre>

</div>
```

```
</div>

<p class="copyright">
<script type="text/javascript" language="JavaScript"><!--
    document.write(" - "+"Last Published: " + document.lastModified);
    // -->
</script>
</p>
</body>
</html>
```

1.351 postgresql-jdbc 42.2.5.jre7

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1.355 cxf-rt-rs-extension-search 2.7.3

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1.363 xerces-j 2.9.1

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1.368 tomcat-juli 8.0.53

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1.369 metrics-core 3.0.2

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1.370 javatuples 1.2

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1.371 javax-ws-rs-api 2.0

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1.372 commons-csv 1.1

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src/test/resources/CSVFileParser/test_rfc4180.txt

src/test/resources/CSVFileParser/test_rfc4180_trim.txt

src/test/resources/CSVFileParser/testCSV85.csv

src/test/resources/CSVFileParser/testCSV85_default.txt

src/test/resources/CSVFileParser/testCSV85_ignoreEmpty.txt

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1.373 regexp 1.5.0

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2.7.3

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1.379 apache-servicemix-bundles-xmlschema

1.4.2_1

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1.380 yang-model-util 0.8.4

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1.382 spring-oxm 4.3.19

1.383 jetty-servlets 9.3.27.v20190418

1.384 easyrules-core 2.1.0

1.385 maven-artifact 2.0.8

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1.391 java-xml 2.1.7

1.392 cxf-wstx-msv-validation 2.7.3

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1.395 commons-lang 2.6

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1.397 tomcat-juli 7.0.40

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1.410 typesafe-config 1.0.2

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1.414 jackson-dataformat-smile 2.7.9

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1.415 apache-el 6.0.20.S2

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1.416 relaxng-datatype 1.0.0

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1.417 commons-codec 1.9

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contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
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The Stempel analyzer (contrib/analyzers) includes BSD-licensed software developed by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (contrib/analyzers) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in contrib/analyzers/stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt. See <http://project.carrot2.org/license.html>.

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1.425 commons-lang 2.4

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1.429 xmlschema 1.3.2

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1.431 maven-plugin-registry 2.0.8

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1.433 geronimo-javamail 1.6

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lib/csharp/src/Protocol/TField.cs
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lib/csharp/src/Server/TSimpleServer.cs
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```
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```

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