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2.372 kie-soup-maven-support 7.11.0.Final
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2.375 libthrift 0.11.0
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2.432.1 Available under license
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2.463 org.eclipse.jgit 5.0.2.201807311906-r
2.464 org.eclipse.sisu.inject 0.3.2
2.465 org.eclipse.sisu.plexus 0.3.2
2.466 org.osgi.annotation.versioning 1.0.0
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2.470 picketbox-acl-impl 5.0.3.Final
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2.476 picketlink-common 2.5.5.SP12
2.477 picketlink-config 2.5.5.SP12
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2.484 Plexus Security Dispatcher Component 1.3
2.485 plexus-cipher 1.7
2.486 plexus-classworlds 2.5.2
2.487 plexus-component-annotations 1.6
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2.520 rxjava 2.1.3
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2.527 smallrye-config 1.3.3
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2.539 taglibs-standard-spec 1.2.6-RC1
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2.716 xom 1.2.10
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2.719 yasson 1.0.1

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3.1.1 Available under license
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3.12 apollo-link-error 1.1.2
3.13 apollo-link-http 1.5.7
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2.20 ant-launcher 1.8.4

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2.49 artemis-wildfly-integration 1.0.2

2.50 asm 6.2.1

2.51 asm-analysis 6.2.1

2.52 asm-tree 6.2.1

2.53 asm-util 6.2.1

2.54 authorization-spi 5.0.3.Final

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*/
package org.jboss.security.authorization;

/**
* <p>
* Marker interface for permission objects.
* </p>
*
* @author <a href="mailto:sguilhen@redhat.com">Stefan Guilhen</a>
*/
public interface Permission
{

}
```

2.55 azure-keyvault-core 0.8.0

2.56 azure-storage 6.1.0

2.57 bcmail-jdk15on 1.60

2.58 bcpkix-jdk15on 1.60

2.59 bcprov-jdk15on 1.54

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2.60 bcprov-jdk15on 1.60

2.61 byte-buddy 1.8.17

2.62 caffeine 2.6.2

2.63 cal10n-api 0.8.1

2.64 CDI APIs 1.0

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*/

package javax.enterprise.context;

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

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;


/**
* <p>Specifies that a bean is application scoped.</p>
*
* <p>The application scope is active:</p>
*
* <ul>
* <li>during the <tt>service()</tt> method of any servlet in
* the web application, during the <tt>doFilter()</tt> method of
* any servlet filter and when the container calls any
* <tt>ServletContextListener</tt>, <tt>HttpSessionListener</tt>,
* <tt>AsyncListener</tt> or <tt>ServletRequestListener</tt>,</li>
* <li>during any Java EE web service invocation,</li>
* <li>during any asynchronous observer method notification,</li>
* <li>during any remote method invocation of any EJB, during
* any asynchronous method invocation of any EJB, during any
* call to an EJB timeout method and during message delivery
* to any EJB message-driven bean,</li>
* <li>during any message delivery to a <tt>MessageListener</tt>
* for a JMS topic or queue obtained from the Java EE component
* environment, and</li>
* <li>when the disposer method or <tt>@PreDestroy</tt> callback of
* any bean with any normal scope other than <tt>@ApplicationScoped</tt>
* is called.</li>
* </ul>
```

```
*
* <p>The application context is shared between all servlet
* requests, asynchronous observer method notifications, web
* service invocations, EJB remote method invocations, EJB
* asynchronous method invocations, EJB timeouts and message
* deliveries to message-driven beans that execute within the
* same application. The application context is destroyed when
* the application is shut down.</p>
*
* @author Gavin King
* @author Pete Muir
*/

@Target( { TYPE, METHOD, FIELD })
@Retention(RUNTIME)
@Documented
@NormalScope
@Inherited
public @interface ApplicationScoped
{

}
/*
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*/
package javax.enterprise.inject;


/**
* <p>Indicates that a producer method returned a null value or a producer
* field contained a null value, and the scope of the producer method
* or field was not {@link javax.enterprise.context.Dependent}.</p>
*/
public class IllegalProductException extends InjectionException
{
```

```
  private static final long serialVersionUID = -6280627846071966243L;

  public IllegalProductException()
  {
    super();
  }

  public IllegalProductException(String message, Throwable cause)
  {
    super(message, cause);
  }

  public IllegalProductException(String message)
  {
    super(message);
  }

  public IllegalProductException(Throwable cause)
  {
    super(cause);
  }

}
```

2.65 ClassMate 1.3.4

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

2.66 codemodel 2.3.0

2.67 common-spi 5.0.3.Final

2.68 Commons Collections 3.2.1

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2.77 commons-io 2.5

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2.80 compensations 5.9.0.Final

2.81 compiler 0.9.4

2.82 core 3.2.1

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2.83 cryptacular 1.1.1

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2.85 cxf-core 3.2.5-jbossorg-1

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*/

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

```
/**
* Base permission description which is visible to
* authorization handlers
* @see OAuthAuthorizationData
*/
public class Permission {
  private String permission;
  private String description;
  private boolean isDefault;

  public Permission() {

  }

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

  public String getDescription() {
     return description;
  }

  public void setDescription(String description) {
     this.description = description;
  }

  public String getPermission() {
     return permission;
  }

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

  /**
   * Indicates that this permission has been allocated by default.
   * Authorization View handlers may use this property in order to restrict
   * the list of scopes which may be refused to non-default scopes only
   * @param isDefault
   */
  public void setDefault(boolean value) {
     this.isDefault = value;
  }

  public boolean isDefault() {
     return isDefault;
```

```
  }
}
```

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import java.io.IOException;
import java.io.InputStream;

/**
* 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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*/
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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*/
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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*/

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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  tab-interval: 0.5in;
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p {
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  margin-bottom: 0.5em;
  }
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2.88 cxf-rt-bindings-xml 3.2.5-jbossorg-1

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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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*/
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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*/

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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```

```
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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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<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
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   margin-bottom: 0.5em;
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   margin-top:  0.05em;
   margin-bottom: 0.05em;
   }
 </style>

</head>

<body lang="EN-US">

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2.90 cxf-rt-databinding-jaxb 3.2.5-jbossorg-1

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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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*/

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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*/
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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*/

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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   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top: 0.5em;
   margin-bottom: 0.5em;
   }
 p.list {
  margin-left: 0.5in;
   margin-top: 0.05em;
   margin-bottom: 0.05em;
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 </style>

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2.92 cxf-rt-features-logging 3.2.5-jbossorg-1

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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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*/
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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2.93 cxf-rt-frontend-jaxws 3.2.5-jbossorg-1

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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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*/
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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##
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content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
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   tab-interval: 0.5in;
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   margin-top:  0.05em;
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2.94 cxf-rt-frontend-simple 3.2.5-jbossorg-1

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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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*/

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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2.95 cxf-rt-javascript 3.2.5-jbossorg-1

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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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*/
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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##

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<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
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<html xmlns="http://www.w3.org/1999/xhtml">

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<style type="text/css">
 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
```

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  margin-top:  0.5em;
  margin-bottom: 0.5em;
  }
 p.list {
  margin-left: 0.5in;
  margin-top:  0.05em;
  margin-bottom: 0.05em;
  }
 </style>

</head>

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2.96 cxf-rt-management 3.2.5-jbossorg-1

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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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*/

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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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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2.97 cxf-rt-security 3.2.5-jbossorg-1

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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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*/
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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   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
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   margin-bottom: 0.5em;
   }
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   margin-top:  0.05em;
   margin-bottom: 0.05em;
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 </style>

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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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*/
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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2.99 cxf-rt-transports-http 3.2.5-jbossorg-1

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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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*/
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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<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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  }
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  margin-top:  0.05em;
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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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*/

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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<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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2.101 cxf-rt-transports-jms 3.2.5-jbossorg-1

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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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*/
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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content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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   margin-bottom: 0.5em;
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2.102 cxf-rt-transports-local 3.2.5-jbossorg-1

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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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*/
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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<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
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 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top:  0.5em;
   margin-bottom: 0.5em;
   }
```

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 p.list {
  margin-left: 0.5in;
   margin-top:  0.05em;
   margin-bottom: 0.05em;
   }
 </style>

</head>

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2.103 cxf-rt-ws-addr 3.2.5-jbossorg-1

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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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*/

```
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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<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
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<html xmlns="http://www.w3.org/1999/xhtml">

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<style type="text/css">
 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top:  0.5em;
   margin-bottom: 0.5em;
   }
 p.list {
  margin-left: 0.5in;
   margin-top:  0.05em;
   margin-bottom: 0.05em;
   }
 </style>

</head>

<body lang="EN-US">

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2.104 cxf-rt-ws-mex 3.2.5-jbossorg-1

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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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*/
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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   margin-left: auto;
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   }
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2.105 cxf-rt-ws-policy 3.2.5-jbossorg-1

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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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*/
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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<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
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   margin: 0.25in 0.5in 0.25in 0.5in;
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2.106 cxf-rt-ws-rm 3.2.5-jbossorg-1

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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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*/

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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2.107 cxf-rt-ws-security 3.2.5-jbossorg-1

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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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*/
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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#end
#end
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   tab-interval: 0.5in;
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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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*/
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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2.109 cxf-services-sts-core 3.2.5-jbossorg-1

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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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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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```
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 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top:  0.5em;
   margin-bottom: 0.5em;
   }
 p.list {
  margin-left: 0.5in;
   margin-top:  0.05em;
   margin-bottom: 0.05em;
   }
 </style>

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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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*/
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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2.111 cxf-tools-common 3.2.5-jbossorg-1

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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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*/
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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$Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
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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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*/

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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2.113 cxf-tools-validator 3.2.5-jbossorg-1

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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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*/
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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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="generator" content="HTML Tidy, see www.w3.org" />
<meta http-equiv="Content-Type"
content="text/html; charset=iso-8859-1" />
<link rel="stylesheet" type="text/css"
href="/StyleSheets/base.css" />
<title>W3C IPR SOFTWARE NOTICE</title>
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
```

```
  margin-top:  0.5em;
  margin-bottom: 0.5em;
  }
 p.list {
  margin-left: 0.5in;
  margin-top:  0.05em;
  margin-bottom: 0.05em;
  }
 </style>

</head>

<body lang="EN-US">

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2.114 cxf-tools-wsdlto-core 3.2.5-jbossorg-1

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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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*/
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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2.115 cxf-tools-wsdlto-databinding-jaxb 3.2.5-jbossorg-1

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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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*/

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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   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top:  0.5em;
```

```
  margin-bottom: 0.5em;
  }
 p.list {
  margin-left: 0.5in;
  margin-top:  0.05em;
  margin-bottom: 0.05em;
  }
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2.116 cxf-tools-wsdlto-frontend-jaxws 3.2.5-jbossorg-1

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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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*/
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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<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
<title>Eclipse Public License - Version 1.0</title>
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 body {
   size: 8.5in 11.0in;
   margin: 0.25in 0.5in 0.25in 0.5in;
   tab-interval: 0.5in;
   }
 p {
   margin-left: auto;
   margin-top:  0.5em;
   margin-bottom: 0.5em;
   }
```

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 p.list {
  margin-left: 0.5in;
   margin-top:  0.05em;
   margin-bottom: 0.05em;
   }
 </style>

</head>

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2.117 cxf-xjc-boolean 3.1.0

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2.123 diffutils 1.3.0

2.124 drools-compiler 7.11.0.Final

2.125 drools-core 7.11.0.Final

2.126 dtd-parser 1.2

2.127 ecj 4.4.2

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2.128 ehcache 2.10.5

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AppleJavaExtensions
v 1.2

http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html

This is a pluggable jar of stub classes representing the new Apple
eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these
stubs is to allow for compilation of eAWT- or eIO-referencing code on
platforms other than Mac OS X. These stubs are not intended for the
runtime classpath on non-Mac platforms. Please see the OSXAdapter
sample for how to write cross-platform code that uses eAWT.

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On 13 Aug 2004, at 12:33 AM, mdrance@apple.com wrote:

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==========

2.133 galleon-core 2.0.0.Final

2.134 generic-jms-ra-jar 2.0.1.Final

2.135 geronimo-atinject_1.0_spec 1.0

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2.137 geronimo-jms_2.0_spec 1.0-alpha-2

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2.145 HdrHistogram 2.1.10

2.146 hibernate-commons-annotations 5.0.4.Final

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That's all there is to it!

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2.191 jackson-coreutils 1.0

2.191.1 Available under license :

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Version 3, 29 June 2007

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2.192 jackson-databind 2.9.10.1

2.192.1 Available under license :

Jackson JSON processor

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

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2.193 jackson-datatype-jdk8 2.9.5

2.194 jackson-datatype-jsr310 2.9.5

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2.195 jackson-jaxrs-base 2.9.5

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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from the source code management (SCM) system project uses.

2.197 jackson-module-jaxb-annotations 2.9.5

2.198 jaeger-core 0.30.6

2.199 jaeger-thrift 0.30.6

2.200 jandex 2.0.5.Final

2.201 jansi 1.17

2.202 jastow 2.0.5.Final

2.203 jasypt 1.9.2

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2.204 java-getopt 1.0.13

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2.205 java-support 7.1.1

2.206 java-support 7.3.0

2.207 JavaBeans Activation Framework (JAF) 1.1

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2.224 javax.persistence-api 2.2

2.225 javax.security.enterprise 1.0

2.226 javax.security.enterprise-api 1.0

2.227 JAX-RS provider for JSON content type 1.9.13

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Version 2.1, February 1999

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2.231 jaxb-impl 2.3.0

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2.233 jaxb-jxc 2.3.0

2.234 jaxb-runtime 2.3.0

2.235 jaxb-xjc 2.3.0

2.236 jaxen 1.1.6

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2.238 jberet-core 1.3.1.Final

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2.242 jboss-classfilewriter 1.2.3.Final

2.243 jboss-common-beans 2.0.0.Final

2.244 jboss-concurrency-api_1.0_spec 1.0.2.Final

2.245 jboss-connector-api_1.6_spec 1.0.0.Final

2.246 jboss-connector-api_1.7_spec 1.0.1.Final

2.247 jboss-dmr 1.5.0.Final

2.248 jboss-ejb-api_3.1_spec 1.0.2.Final

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2.250 jboss-ejb-client 4.0.11.Final

2.251 jboss-ejb3-ext-api 2.2.0.Final

2.252 jboss-el-api_3.0_spec 1.0.12.Final

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2.257 jboss-jacc-api_1.5_spec 1.0.0.Final

2.258 jboss-jaspi-api_1.0_spec 1.0.1.Final

2.259 jboss-jaspi-api_1.1_spec 1.0.0.Alpha1

2.260 jboss-jaxb-api_2.3_spec 1.0.1.Final

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2.264 jboss-jaxws-api_2.3_spec 1.0.0.Final

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2.267 jboss-jsp-api_2.3_spec 1.0.3.Final

2.268 jboss-logging 3.3.2.Final

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2.269 jboss-logging-annotations 2.1.0.Final

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2.279 jboss-modules 1.8.6.Final

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2.288 jboss-saaj-api_1.3_spec 1.0.6.Final

2.289 jboss-seam-int-jbossas 7.0.0.GA

2.290 jboss-servlet-api_3.0_spec 1.0.2.Final

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2.291 jboss-servlet-api_3.1_spec 1.0.2.Final

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2.292 jboss-servlet-api_4.0_spec 1.0.0.Final

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2.293 jboss-threads 2.3.2.Final

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2.336 json-patch 1.3

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*/
package org.keycloak.authorization.policy.provider.permission;

import java.util.HashMap;
import java.util.Map;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.representations.idm.authorization.ResourcePermissionRepresentation;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class ResourcePolicyProviderFactory implements
PolicyProviderFactory<ResourcePermissionRepresentation> {

  private ResourcePolicyProvider provider = new ResourcePolicyProvider();

  @Override
```

```
  public String getName() {
    return "Resource-Based";
  }

  @Override
  public String getGroup() {
    return "Permission";
  }

  @Override
  public PolicyProvider create(AuthorizationProvider authorization) {
    return provider;
  }

  @Override
  public Class<ResourcePermissionRepresentation> getRepresentationType() {
    return ResourcePermissionRepresentation.class;
  }

  @Override
  public ResourcePermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
    ResourcePermissionRepresentation representation = new ResourcePermissionRepresentation();
    representation.setResourceType(policy.getConfig().get("defaultResourceType"));
    return representation;
  }

  @Override
  public PolicyProvider create(KeycloakSession session) {
    return null;
  }

  @Override
  public void onCreate(Policy policy, ResourcePermissionRepresentation representation, AuthorizationProvider
authorization) {
    updateResourceType(policy, representation);
  }

  @Override
  public void onUpdate(Policy policy, ResourcePermissionRepresentation representation, AuthorizationProvider
authorization) {
    updateResourceType(policy, representation);
  }

  private void updateResourceType(Policy policy, ResourcePermissionRepresentation representation) {
    if (representation != null) {
      //TODO: remove this check once we migrate to new API
      if (ResourcePermissionRepresentation.class.equals(representation.getClass())) {
        ResourcePermissionRepresentation resourcePermission =
```

```
ResourcePermissionRepresentation.class.cast(representation);
            Map<String, String> config = new HashMap(policy.getConfig());

            config.compute("defaultResourceType", (key, value) -> {
               String resourceType = resourcePermission.getResourceType();
               return resourceType != null ? resourcePermission.getResourceType() : null;
            });

            policy.setConfig(config);

         }
      }
   }

   @Override
   public void onRemove(Policy policy, AuthorizationProvider authorization) {

   }

   @Override
   public void init(Config.Scope config) {

   }

   @Override
   public void postInit(KeycloakSessionFactory factory) {

   }

   @Override
   public void close() {

   }

   @Override
   public String getId() {
      return "resource";
   }
}
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*/
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;

import java.util.HashMap;
import java.util.Map;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class ResourcePolicyProvider extends AbstractPermissionProvider {

  @Override
  public void evaluate(Evaluation evaluation) {
    DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
    Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
    Policy policy = defaultEvaluation.getParentPolicy();
    Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(policy, p -> new HashMap<>());
    ResourcePermission permission = evaluation.getPermission();
    Decision.Effect effect = decisions.get(permission.getResource());

    if (effect != null) {
      defaultEvaluation.setEffect(effect);
      return;
    }

    super.evaluate(evaluation);

    decisions.put(permission.getResource(), defaultEvaluation.getEffect());
  }
}
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*/
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.representations.idm.authorization.ScopePermissionRepresentation;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class ScopePolicyProviderFactory implements PolicyProviderFactory<ScopePermissionRepresentation> {

  private ScopePolicyProvider provider = new ScopePolicyProvider();

  @Override
  public String getName() {
    return "Scope-Based";
  }

  @Override
  public String getGroup() {
    return "Permission";
  }

  @Override
  public PolicyProvider create(AuthorizationProvider authorization) {
    return provider;
  }

  @Override
  public PolicyProvider create(KeycloakSession session) {
    return null;
  }
```

```
  @Override
  public Class<ScopePermissionRepresentation> getRepresentationType() {
    return ScopePermissionRepresentation.class;
  }

  @Override
  public ScopePermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
    return new ScopePermissionRepresentation();
  }

  @Override
  public void init(Config.Scope config) {

  }

  @Override
  public void postInit(KeycloakSessionFactory factory) {

  }

  @Override
  public void close() {

  }

  @Override
  public String getId() {
    return "scope";
  }
}
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*/
package org.keycloak.authorization.policy.provider.permission;
```

```
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;

import java.util.HashMap;
import java.util.Map;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class ScopePolicyProvider extends AbstractPermissionProvider {

  @Override
  public void evaluate(Evaluation evaluation) {
    DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
    Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
    Policy policy = defaultEvaluation.getParentPolicy();
    Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(policy, p -> new HashMap<>());
    ResourcePermission permission = evaluation.getPermission();

    Decision.Effect effect = decisions.get(permission);

    if (effect != null) {
      defaultEvaluation.setEffect(effect);
      return;
    }

    Decision.Effect decision = defaultEvaluation.getEffect();

    if (decision == null) {
      super.evaluate(evaluation);

      decisions.put(permission, defaultEvaluation.getEffect());
    }
  }
}
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*/
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DefaultEvaluation;
import org.keycloak.authorization.policy.evaluation.Evaluation;
import org.keycloak.authorization.policy.provider.PolicyProvider;

import java.util.HashMap;
import java.util.Map;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public abstract class AbstractPermissionProvider implements PolicyProvider {

  @Override
  public void evaluate(Evaluation evaluation) {
    AuthorizationProvider authorization = evaluation.getAuthorizationProvider();
    DefaultEvaluation defaultEvaluation = DefaultEvaluation.class.cast(evaluation);
    Map<Policy, Map<Object, Decision.Effect>> decisionCache = defaultEvaluation.getDecisionCache();
    Policy policy = evaluation.getPolicy();
    ResourcePermission permission = evaluation.getPermission();

    policy.getAssociatedPolicies().forEach(associatedPolicy -> {
      Map<Object, Decision.Effect> decisions = decisionCache.computeIfAbsent(associatedPolicy, p -> new
HashMap<>());
      Decision.Effect effect = decisions.get(permission);

      defaultEvaluation.setPolicy(associatedPolicy);

      if (effect == null) {
        PolicyProvider policyProvider = authorization.getProvider(associatedPolicy.getType());
        policyProvider.evaluate(defaultEvaluation);
        evaluation.denyIfNoEffect();
        decisions.put(permission, defaultEvaluation.getEffect());
      } else {
        defaultEvaluation.setEffect(effect);
      }
```

```
        });
    }

    @Override
    public void close() {

    }
}
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*/
package org.keycloak.authorization.policy.provider.permission;

import org.keycloak.authorization.identity.Identity;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.Evaluation;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class UMAPolicyProvider extends AbstractPermissionProvider {

    @Override
    public void evaluate(Evaluation evaluation) {
        ResourcePermission permission = evaluation.getPermission();
        Resource resource = permission.getResource();

        if (resource != null) {
            Identity identity = evaluation.getContext().getIdentity();

            // no need to evaluate UMA permissions to resource owner resources
            if (resource.getOwner().equals(identity.getId())) {
                return;
            }
```

```
      }

      super.evaluate(evaluation);
    }
  }
}
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*/
package org.keycloak.authorization.policy.provider.permission;

import java.util.HashSet;
import java.util.Set;
import java.util.stream.Collectors;

import org.keycloak.Config;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.policy.provider.PolicyProvider;
import org.keycloak.authorization.policy.provider.PolicyProviderFactory;
import org.keycloak.authorization.store.PolicyStore;
import org.keycloak.models.ClientModel;
import org.keycloak.models.GroupModel;
import org.keycloak.models.KeycloakSession;
import org.keycloak.models.KeycloakSessionFactory;
import org.keycloak.models.RealmModel;
import org.keycloak.models.RoleModel;
import org.keycloak.models.utils.KeycloakModelUtils;
import org.keycloak.models.utils.ModelToRepresentation;
import org.keycloak.models.utils.RepresentationToModel;
import org.keycloak.representations.idm.authorization.AbstractPolicyRepresentation;
import org.keycloak.representations.idm.authorization.ClientPolicyRepresentation;
import org.keycloak.representations.idm.authorization.GroupPolicyRepresentation;
import org.keycloak.representations.idm.authorization.GroupPolicyRepresentation.GroupDefinition;
import org.keycloak.representations.idm.authorization.JSPolicyRepresentation;
```

```
import org.keycloak.representations.idm.authorization.PolicyRepresentation;
import org.keycloak.representations.idm.authorization.RolePolicyRepresentation;
import org.keycloak.representations.idm.authorization.RolePolicyRepresentation.RoleDefinition;
import org.keycloak.representations.idm.authorization.UmaPermissionRepresentation;
import org.keycloak.representations.idm.authorization.UserPolicyRepresentation;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class UMAPolicyProviderFactory implements PolicyProviderFactory<UmaPermissionRepresentation> {

  private UMAPolicyProvider provider = new UMAPolicyProvider();

  @Override
  public String getName() {
    return "UMA";
  }

  @Override
  public String getGroup() {
    return "Others";
  }

  @Override
  public boolean isInternal() {
    return true;
  }

  @Override
  public PolicyProvider create(AuthorizationProvider authorization) {
    return provider;
  }

  @Override
  public PolicyProvider create(KeycloakSession session) {
    return provider;
  }

  @Override
  public void onCreate(Policy policy, UmaPermissionRepresentation representation, AuthorizationProvider
authorization) {
    policy.setOwner(representation.getOwner());
    PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();
    Set<String> roles = representation.getRoles();

    if (roles != null) {
      for (String role : roles) {
        createRolePolicy(policy, policyStore, role, representation.getOwner());
```

```
            }
        }

        Set<String> groups = representation.getGroups();

        if (groups != null) {
            for (String group : groups) {
                createGroupPolicy(policy, policyStore, group, representation.getOwner());
            }
        }

        Set<String> clients = representation.getClients();

        if (clients != null) {
            for (String client : clients) {
                createClientPolicy(policy, policyStore, client, representation.getOwner());
            }
        }

        Set<String> users = representation.getUsers();

        if (users != null) {
            for (String user : users) {
                createUserPolicy(policy, policyStore, user, representation.getOwner());
            }
        }

        String condition = representation.getCondition();

        if (condition != null) {
            createJSPolicy(policy, policyStore, condition, representation.getOwner());
        }
    }

    @Override
    public void onUpdate(Policy policy, UmaPermissionRepresentation representation, AuthorizationProvider
authorization) {
        PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();
        Set<Policy> associatedPolicies = policy.getAssociatedPolicies();

        for (Policy associatedPolicy : associatedPolicies) {
            AbstractPolicyRepresentation associatedRep = ModelToRepresentation.toRepresentation(associatedPolicy,
authorization, false, false);

            if ("role".equals(associatedRep.getType())) {
                RolePolicyRepresentation rep = RolePolicyRepresentation.class.cast(associatedRep);

                rep.setRoles(new HashSet<>());
```

```
        Set<String> updatedRoles = representation.getRoles();

        if (updatedRoles != null) {
            for (String role : updatedRoles) {
                rep.addRole(role);
            }
        }

        if (rep.getRoles().isEmpty()) {
            policyStore.delete(associatedPolicy.getId());
        } else {
            RepresentationToModel.toModel(rep, authorization, associatedPolicy);
        }
    } else if ("js".equals(associatedRep.getType())) {
        JSPolicyRepresentation rep = JSPolicyRepresentation.class.cast(associatedRep);

        if (representation.getCondition() != null) {
            rep.setCode(representation.getCondition());
            RepresentationToModel.toModel(rep, authorization, associatedPolicy);
        } else {
            policyStore.delete(associatedPolicy.getId());
        }
    } else if ("group".equals(associatedRep.getType())) {
        GroupPolicyRepresentation rep = GroupPolicyRepresentation.class.cast(associatedRep);

        rep.setGroups(new HashSet<>());

        Set<String> updatedGroups = representation.getGroups();

        if (updatedGroups != null) {
            for (String group : updatedGroups) {
                rep.addGroupPath(group);
            }
        }

        if (rep.getGroups().isEmpty()) {
            policyStore.delete(associatedPolicy.getId());
        } else {
            RepresentationToModel.toModel(rep, authorization, associatedPolicy);
        }
    } else if ("client".equals(associatedRep.getType())) {
        ClientPolicyRepresentation rep = ClientPolicyRepresentation.class.cast(associatedRep);

        rep.setClients(new HashSet<>());

        Set<String> updatedClients = representation.getClients();
```

```
            if (updatedClients != null) {
                for (String client : updatedClients) {
                    rep.addClient(client);
                }
            }

            if (rep.getClients().isEmpty()) {
                policyStore.delete(associatedPolicy.getId());
            } else {
                RepresentationToModel.toModel(rep, authorization, associatedPolicy);
            }
        } else if ("user".equals(associatedRep.getType())) {
            UserPolicyRepresentation rep = UserPolicyRepresentation.class.cast(associatedRep);

            rep.setUsers(new HashSet<>());

            Set<String> updatedUsers = representation.getUsers();

            if (updatedUsers != null) {
                for (String user : updatedUsers) {
                    rep.addUser(user);
                }
            }

            if (rep.getUsers().isEmpty()) {
                policyStore.delete(associatedPolicy.getId());
            } else {
                RepresentationToModel.toModel(rep, authorization, associatedPolicy);
            }
        }
    }

    Set<String> updatedRoles = representation.getRoles();

    if (updatedRoles != null) {
        boolean createPolicy = true;

        for (Policy associatedPolicy : associatedPolicies) {
            if ("role".equals(associatedPolicy.getType())) {
                createPolicy = false;
            }
        }

        if (createPolicy) {
            for (String role : updatedRoles) {
                createRolePolicy(policy, policyStore, role, policy.getOwner());
            }
        }
```

```
}

Set<String> updatedGroups = representation.getGroups();

if (updatedGroups != null) {
   boolean createPolicy = true;

   for (Policy associatedPolicy : associatedPolicies) {
      if ("group".equals(associatedPolicy.getType())) {
         createPolicy = false;
      }
   }

   if (createPolicy) {
      for (String group : updatedGroups) {
         createGroupPolicy(policy, policyStore, group, policy.getOwner());
      }
   }
}

Set<String> updatedClients = representation.getClients();

if (updatedClients != null) {
   boolean createPolicy = true;

   for (Policy associatedPolicy : associatedPolicies) {
      if ("client".equals(associatedPolicy.getType())) {
         createPolicy = false;
      }
   }

   if (createPolicy) {
      for (String client : updatedClients) {
         createClientPolicy(policy, policyStore, client, policy.getOwner());
      }
   }
}

Set<String> updatedUsers = representation.getUsers();

if (updatedUsers != null) {
   boolean createPolicy = true;

   for (Policy associatedPolicy : associatedPolicies) {
      if ("user".equals(associatedPolicy.getType())) {
         createPolicy = false;
      }
   }
```

```
            if (createPolicy) {
                for (String user : updatedUsers) {
                    createUserPolicy(policy, policyStore, user, policy.getOwner());
                }
            }
        }

        String condition = representation.getCondition();

        if (condition != null) {
            boolean createPolicy = true;

            for (Policy associatedPolicy : associatedPolicies) {
                if ("js".equals(associatedPolicy.getType())) {
                    createPolicy = false;
                }
            }

            if (createPolicy) {
                createJSPolicy(policy, policyStore, condition, policy.getOwner());
            }
        }
    }

    @Override
    public void onImport(Policy policy, PolicyRepresentation representation, AuthorizationProvider authorization) {
    }

    @Override
    public UmaPermissionRepresentation toRepresentation(Policy policy, AuthorizationProvider authorization) {
        UmaPermissionRepresentation representation = new UmaPermissionRepresentation();

        representation.setScopes(policy.getScopes().stream().map(Scope::getName).collect(Collectors.toSet()));
        representation.setOwner(policy.getOwner());

        for (Policy associatedPolicy : policy.getAssociatedPolicies()) {
            AbstractPolicyRepresentation associatedRep = ModelToRepresentation.toRepresentation(associatedPolicy,
authorization, false, false);
            RealmModel realm = authorization.getRealm();

            if ("role".equals(associatedRep.getType())) {
                RolePolicyRepresentation rep = RolePolicyRepresentation.class.cast(associatedRep);

                for (RoleDefinition definition : rep.getRoles()) {
                    RoleModel role = realm.getRoleById(definition.getId());

                    if (role.isClientRole()) {
```

```
representation.addClientRole(ClientModel.class.cast(role.getContainer()).getClientId(),role.getName());
} else {
                representation.addRole(role.getName());
              }
            }
        } else if ("js".equals(associatedRep.getType())) {
            JSPolicyRepresentation rep = JSPolicyRepresentation.class.cast(associatedRep);
            representation.setCondition(rep.getCode());
        } else if ("group".equals(associatedRep.getType())) {
            GroupPolicyRepresentation rep = GroupPolicyRepresentation.class.cast(associatedRep);

            for (GroupDefinition definition : rep.getGroups()) {
representation.addGroup(ModelToRepresentation.buildGroupPath(realm.getGroupById(definition.getId())));
  }
        } else if ("client".equals(associatedRep.getType())) {
            ClientPolicyRepresentation rep = ClientPolicyRepresentation.class.cast(associatedRep);

            for (String client : rep.getClients()) {
              representation.addClient(realm.getClientById(client).getClientId());
            }
        } else if ("user".equals(associatedPolicy.getType())) {
            UserPolicyRepresentation rep = UserPolicyRepresentation.class.cast(associatedRep);

            for (String user : rep.getUsers()) {
              representation.addUser(authorization.getKeycloakSession().users().getUserById(user,
realm).getUsername());
            }
        }
    }

    return representation;
  }

  @Override
  public Class<UmaPermissionRepresentation> getRepresentationType() {
    return UmaPermissionRepresentation.class;
  }

  @Override
  public void onRemove(Policy policy, AuthorizationProvider authorization) {
    PolicyStore policyStore = authorization.getStoreFactory().getPolicyStore();

    for (Policy associatedPolicy : policy.getAssociatedPolicies()) {
      policyStore.delete(associatedPolicy.getId());
    }
  }

  @Override
```

```
public void init(Config.Scope config) {

}

@Override
public void postInit(KeycloakSessionFactory factory) {

}

@Override
public void close() {

}

@Override
public String getId() {
   return "uma";
}

private void createJSPolicy(Policy policy, PolicyStore policyStore, String condition, String owner) {
   JSPolicyRepresentation rep = new JSPolicyRepresentation();

   rep.setName(KeycloakModelUtils.generateId());
   rep.setCode(condition);

   Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

   associatedPolicy.setOwner(owner);

   policy.addAssociatedPolicy(associatedPolicy);
}

private void createClientPolicy(Policy policy, PolicyStore policyStore, String client, String owner) {
   ClientPolicyRepresentation rep = new ClientPolicyRepresentation();

   rep.setName(KeycloakModelUtils.generateId());
   rep.addClient(client);

   Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

   associatedPolicy.setOwner(owner);

   policy.addAssociatedPolicy(associatedPolicy);
}

private void createGroupPolicy(Policy policy, PolicyStore policyStore, String group, String owner) {
   GroupPolicyRepresentation rep = new GroupPolicyRepresentation();
```

```
        rep.setName(KeycloakModelUtils.generateId());
        rep.addGroupPath(group);

        Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

        associatedPolicy.setOwner(owner);

        policy.addAssociatedPolicy(associatedPolicy);
    }

    private void createRolePolicy(Policy policy, PolicyStore policyStore, String role, String owner) {
        RolePolicyRepresentation rep = new RolePolicyRepresentation();

        rep.setName(KeycloakModelUtils.generateId());
        rep.addRole(role, false);

        Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

        associatedPolicy.setOwner(owner);

        policy.addAssociatedPolicy(associatedPolicy);
    }

    private void createUserPolicy(Policy policy, PolicyStore policyStore, String user, String owner) {
        UserPolicyRepresentation rep = new UserPolicyRepresentation();

        rep.setName(KeycloakModelUtils.generateId());
        rep.addUser(user);

        Policy associatedPolicy = policyStore.create(rep, policy.getResourceServer());

        associatedPolicy.setOwner(owner);

        policy.addAssociatedPolicy(associatedPolicy);
    }
}
```

2.345 keycloak-authz-policy-drools 4.8.3.Final

2.346 keycloak-client-cli-dist 4.8.3.Final

2.347 keycloak-client-registration-cli 4.8.3.Final

2.348 keycloak-common 4.8.3.Final

2.349 keycloak-core 4.8.3.Final

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*/
package org.keycloak.representations.idm.authorization;

import java.util.HashSet;
import java.util.Map;
import java.util.Objects;
import java.util.Set;

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
import com.fasterxml.jackson.annotation.JsonInclude;
import com.fasterxml.jackson.annotation.JsonProperty;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
```

```
*/
@JsonIgnoreProperties(ignoreUnknown = true)
public class Permission {

  @JsonProperty("rsid")
  private String resourceId;

  @JsonProperty("rsname")
  private String resourceName;

  @JsonInclude(JsonInclude.Include.NON_EMPTY)
  private Set<String> scopes;

  @JsonInclude(JsonInclude.Include.NON_EMPTY)
  private final Map<String, Set<String>> claims;

  public Permission() {
    this(null, null, null, null);
  }

  public Permission(final String resourceId, final Set<String> scopes) {
    this(resourceId, null, scopes, null);
  }

  public Permission(final String resourceId, String resourceName, final Set<String> scopes, Map<String,
Set<String>> claims) {
    this.resourceId = resourceId;
    this.resourceName = resourceName;
    this.scopes = scopes;
    this.claims = claims;
  }

  public void setResourceId(String resourceId) {
    this.resourceId = resourceId;
  }

  public String getResourceId() {
    if (resourceId == null || "".equals(resourceId.trim())) {
      return null;
    }
    return this.resourceId;
  }

  public void setResourceName(String resourceName) {
    this.resourceName = resourceName;
  }

  public String getResourceName() {
```

```
    return this.resourceName;
}

public Set<String> getScopes() {
    if (this.scopes == null) {
        this.scopes = new HashSet<>();
    }

    return this.scopes;
}

public Map<String, Set<String>> getClaims() {
    return claims;
}

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

    Permission that = (Permission) o;

    if (getResourceId() != null || getResourceName() != null) {
        if (!getResourceId().equals(that.resourceId)) {
            return false;
        }

        if (getScopes().isEmpty() && that.getScopes().isEmpty()) {
            return true;
        }
    } else if (that.resourceId != null) {
        return false;
    }

    for (String scope : that.getScopes()) {
        if (getScopes().contains(scope)) {
            return true;
        }
    }

    return false;
}

@Override
public int hashCode() {
    return Objects.hash(resourceId);
}
```

```
    @Override
    public String toString() {
        StringBuilder builder = new StringBuilder();

        builder.append("Permission {").append("id=").append(resourceId).append(", name=").append(resourceName)
                .append(", scopes=").append(scopes).append("}");

        return builder.toString();
    }

    public void setScopes(Set<String> scopes) {
        this.scopes = scopes;
    }
}
```

2.350 keycloak-js-adapter 4.8.3.Final

2.351 keycloak-kerberos-federation 4.8.3.Final

2.352 keycloak-ldap-federation 4.8.3.Final

2.353 keycloak-model-infinispan 4.8.3.Final

2.354 keycloak-model-jpa 4.8.3.Final

2.355 keycloak-saml-core 4.8.3.Final

2.356 keycloak-saml-core-public 4.8.3.Final

2.357 keycloak-server-dist 4.8.3.Final

2.358 keycloak-server-feature-pack 4.8.3.Final

2.359 keycloak-server-spi 4.8.3.Final

2.360 keycloak-server-spi-private 4.8.3.Final

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*/
package org.keycloak.authorization.permission.evaluator;

import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
```

```
import java.util.Map;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.Policy;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.DecisionPermissionCollector;
import org.keycloak.authorization.policy.evaluation.EvaluationContext;
import org.keycloak.authorization.policy.evaluation.PolicyEvaluator;
import org.keycloak.authorization.store.StoreFactory;
import org.keycloak.representations.idm.authorization.AuthorizationRequest;
import org.keycloak.representations.idm.authorization.Permission;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
class IterablePermissionEvaluator implements PermissionEvaluator {

  private final Iterator<ResourcePermission> permissions;
  private final EvaluationContext executionContext;
  private final PolicyEvaluator policyEvaluator;
  private final AuthorizationProvider authorizationProvider;

  IterablePermissionEvaluator(Iterator<ResourcePermission> permissions, EvaluationContext executionContext,
AuthorizationProvider authorizationProvider) {
    this.permissions = permissions;
    this.executionContext = executionContext;
    this.authorizationProvider = authorizationProvider;
    this.policyEvaluator = authorizationProvider.getPolicyEvaluator();
  }

  @Override
  public Decision evaluate(Decision decision) {
    StoreFactory storeFactory = authorizationProvider.getStoreFactory();

    try {
      Map<Policy, Map<Object, Decision.Effect>> decisionCache = new HashMap<>();

      storeFactory.setReadOnly(true);

      while (this.permissions.hasNext()) {
        this.policyEvaluator.evaluate(this.permissions.next(), authorizationProvider, executionContext, decision,
decisionCache);
      }

      decision.onComplete();
    } catch (Throwable cause) {
```

```
            decision.onError(cause);
        } finally {
            storeFactory.setReadOnly(false);
        }

        return decision;
    }

    @Override
    public Collection<Permission> evaluate(ResourceServer resourceServer, AuthorizationRequest request) {
        DecisionPermissionCollector decision = new DecisionPermissionCollector(authorizationProvider,
resourceServer, request);

        evaluate(decision);

        return decision.results();
    }
}
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* limitations under the License.
*/

package org.keycloak.authorization.permission.evaluator;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.permission.ResourcePermission;
import org.keycloak.authorization.policy.evaluation.EvaluationContext;

import java.util.Collection;

/**
* A factory for the different {@link PermissionEvaluator} implementations.
*
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
```

```
*/
public final class Evaluators {

  private final AuthorizationProvider authorizationProvider;

  public Evaluators(AuthorizationProvider authorizationProvider) {
    this.authorizationProvider = authorizationProvider;
  }

  public PermissionEvaluator from(Collection<ResourcePermission> permissions, EvaluationContext
evaluationContext) {
    return new IterablePermissionEvaluator(permissions.iterator(), evaluationContext, authorizationProvider);
  }
}
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*/
package org.keycloak.authorization.permission.evaluator;

import java.util.Collection;

import org.keycloak.authorization.Decision;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.representations.idm.authorization.AuthorizationRequest;
import org.keycloak.representations.idm.authorization.Permission;

/**
* An {@link PermissionEvaluator} represents a source of {@link
org.keycloak.authorization.permission.ResourcePermission}, responsible for emitting these permissions
* to a consumer in order to evaluate the authorization policies based on a {@link
org.keycloak.authorization.policy.evaluation.EvaluationContext}.
*
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
```

```
public interface PermissionEvaluator {

  <D extends Decision> D evaluate(D decision);
  Collection<Permission> evaluate(ResourceServer resourceServer, AuthorizationRequest request);
}
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* limitations under the License.
*/

package org.keycloak.authorization.permission;

import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.model.Scope;

import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.HashMap;
import java.util.HashSet;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Map;
import java.util.Map.Entry;
import java.util.Set;

/**
* Represents a permission for a given resource.
*
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class ResourcePermission {

  private final Resource resource;
```

```
  private final List<Scope> scopes;
  private ResourceServer resourceServer;
  private Map<String, Set<String>> claims;

  public ResourcePermission(Resource resource, List<Scope> scopes, ResourceServer resourceServer) {
    this(resource, scopes, resourceServer, null);
  }

  public ResourcePermission(Resource resource, ResourceServer resourceServer, Map<String, ? extends
Collection<String>> claims) {
    this(resource, new ArrayList<>(resource.getScopes()), resourceServer, claims);
  }

  public ResourcePermission(Resource resource, List<Scope> scopes, ResourceServer resourceServer, Map<String,
? extends Collection<String>> claims) {
    this.resource = resource;
    this.scopes = scopes;
    this.resourceServer = resourceServer;
    if (claims != null) {
      this.claims = new HashMap<>();
      for (Entry<String, ? extends Collection<String>> entry : claims.entrySet()) {
        this.claims.computeIfAbsent(entry.getKey(), key -> new LinkedHashSet<>()).addAll(entry.getValue());
      }
    }
  }

  /**
   * Returns the resource to which this permission applies.
   *
   * @return the resource to which this permission applies
   */
  public Resource getResource() {
    return this.resource;
  }

  /**
   * Returns a list of permitted scopes associated with the resource
   *
   * @return a lit of permitted scopes
   */
  public List<Scope> getScopes() {
    return this.scopes;
  }

  /**
   * Returns the resource server associated with this permission.
   *
   * @return the resource server
```

```
 */
public ResourceServer getResourceServer() {
   return this.resourceServer;
}

/**
 * Returns all permission claims.
 *
 * @return
 */
public Map<String, Set<String>> getClaims() {
   if (claims == null) {
      return Collections.emptyMap();
   }
   return Collections.unmodifiableMap(claims);
}

/**
 * <p>Adds a permission claim with the given name and a single value.
 *
 * <p>If a claim already exists, the value is added to list of values of the existing claim</p>
 *
 * @param name the name of the claim
 * @param value the value of the claim
 */
public boolean addClaim(String name, String value) {
   if (claims == null) {
      claims = new HashMap<>();
   }
   return claims.computeIfAbsent(name, key -> new HashSet<>()).add(value);
}

/**
 * <p>Removes a permission claim.
 *
 *
 * @param name the name of the claim
 */
public void removeClaim(String name) {
   if (claims != null) {
      claims.remove(name);
   }
}

public void addScope(Scope scope) {
   if (resource != null) {
      if (!resource.getScopes().contains(scope)) {
         return;
```

```
            }
        }

        if (!scopes.contains(scope)) {
            scopes.add(scope);
        }
    }

    public void addClaims(Map<String, Set<String>> claims) {
        if (this.claims == null) {
            this.claims = new HashMap<>();
        }
        this.claims.putAll(claims);
    }
}
```

2.361 keycloak-services 4.8.3.Final

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*/
package org.keycloak.authorization.protection.permission;

import org.keycloak.OAuthErrorException;
import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.PermissionTicket;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.store.PermissionTicketStore;
import org.keycloak.authorization.store.StoreFactory;
import org.keycloak.models.Constants;
import org.keycloak.models.RealmModel;
```

```
import org.keycloak.models.UserProvider;
import org.keycloak.models.utils.ModelToRepresentation;
import org.keycloak.models.utils.RepresentationToModel;
import org.keycloak.representations.idm.authorization.PermissionTicketRepresentation;
import org.keycloak.services.ErrorResponseException;

import javax.ws.rs.Consumes;
import javax.ws.rs.DELETE;
import javax.ws.rs.GET;
import javax.ws.rs.POST;
import javax.ws.rs.PUT;
import javax.ws.rs.Produces;
import javax.ws.rs.QueryParam;
import javax.ws.rs.core.Response;
import java.util.HashMap;
import java.util.Map;
import java.util.stream.Collectors;
import javax.ws.rs.Path;
import javax.ws.rs.PathParam;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.store.ResourceStore;
import org.keycloak.authorization.store.ScopeStore;
import org.keycloak.models.UserModel;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class PermissionTicketService {

  private final AuthorizationProvider authorization;
  private final KeycloakIdentity identity;
  private final ResourceServer resourceServer;

  public PermissionTicketService(KeycloakIdentity identity, ResourceServer resourceServer, AuthorizationProvider
authorization) {
    this.identity = identity;
    this.resourceServer = resourceServer;
    this.authorization = authorization;
  }

  @POST
  @Consumes("application/json")
  @Produces("application/json")
  public Response create(PermissionTicketRepresentation representation) {
    PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
    if (representation == null)
      throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_permission",
```

```
Response.Status.BAD_REQUEST);
    if (representation.getId() != null)
      throw new ErrorResponseException("invalid_permission", "created permissions should not have id",
Response.Status.BAD_REQUEST);
    if (representation.getResource() == null)
      throw new ErrorResponseException("invalid_permission", "created permissions should have resource",
Response.Status.BAD_REQUEST);
    if (representation.getScope() == null && representation.getScopeName() == null)
      throw new ErrorResponseException("invalid_permission", "created permissions should have scope or
scopeName", Response.Status.BAD_REQUEST);
    if (representation.getRequester() == null && representation.getRequesterName() == null)
      throw new ErrorResponseException("invalid_permission", "created permissions should have requester or
requesterName", Response.Status.BAD_REQUEST);

    ResourceStore rstore = this.authorization.getStoreFactory().getResourceStore();
    Resource resource = rstore.findById(representation.getResource(), resourceServer.getId());
    if (resource == null ) throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" +
representation.getResource() + "] does not exists in this server.", Response.Status.BAD_REQUEST);

    if (!resource.getOwner().equals(this.identity.getId()))
      throw new ErrorResponseException("not_authorised", "permissions for [" + representation.getResource() +
"] can be only created by the owner", Response.Status.FORBIDDEN);

    UserModel user = null;
    if(representation.getRequester() != null)
      user =
this.authorization.getKeycloakSession().userStorageManager().getUserById(representation.getRequester(),
this.authorization.getRealm());
    else
      user =
this.authorization.getKeycloakSession().userStorageManager().getUserByUsername(representation.getRequesterNa
me(), this.authorization.getRealm());

    if (user == null)
      throw new ErrorResponseException("invalid_permission", "Requester does not exists in this server as user.",
Response.Status.BAD_REQUEST);

    Scope scope = null;
    ScopeStore sstore = this.authorization.getStoreFactory().getScopeStore();

    if(representation.getScopeName() != null)
      scope = sstore.findByName(representation.getScopeName(), resourceServer.getId());
    else
      scope = sstore.findById(representation.getScope(), resourceServer.getId());

    if (scope == null && representation.getScope() !=null )
      throw new ErrorResponseException("invalid_scope", "Scope [" + representation.getScope() + "] is invalid",
Response.Status.BAD_REQUEST);
```

```
    if (scope == null && representation.getScopeName() !=null )
      throw new ErrorResponseException("invalid_scope", "Scope [" + representation.getScopeName() + "] is
invalid", Response.Status.BAD_REQUEST);

    boolean match = resource.getScopes().contains(scope);

    if (!match)
      throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" +
representation.getResource() + "] does not have Scope [" + scope.getName() + "]",
Response.Status.BAD_REQUEST);

    Map<String, String> attributes = new HashMap<String, String>();
    attributes.put(PermissionTicket.RESOURCE, resource.getId());
    attributes.put(PermissionTicket.SCOPE, scope.getId());
    attributes.put(PermissionTicket.REQUESTER, user.getId());

    if (!ticketStore.find(attributes, resourceServer.getId(), -1, -1).isEmpty())
      throw new ErrorResponseException("invalid_permission", "Permission already exists",
Response.Status.BAD_REQUEST);

    PermissionTicket ticket = ticketStore.create(resource.getId(), scope.getId(), user.getId(), resourceServer);
    if(representation.isGranted())
        ticket.setGrantedTimestamp(java.lang.System.currentTimeMillis());
    representation = ModelToRepresentation.toRepresentation(ticket, authorization);
    return Response.ok(representation).build();
  }

  @PUT
  @Consumes("application/json")
  public Response update(PermissionTicketRepresentation representation) {
    if (representation == null || representation.getId() == null) {
      throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
    PermissionTicket ticket = ticketStore.findById(representation.getId(), resourceServer.getId());

    if (ticket == null) {
      throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    if (!ticket.getOwner().equals(this.identity.getId()) && !this.identity.isResourceServer())
      throw new ErrorResponseException("not_authorised", "permissions for [" + representation.getResource() +
"] can be updated only by the owner or by the resource server", Response.Status.FORBIDDEN);

    RepresentationToModel.toModel(representation, resourceServer.getId(), authorization);
```

```
    return Response.noContent().build();
  }


  @Path("{id}")
  @DELETE
  @Consumes("application/json")
  public Response delete(@PathParam("id") String id) {
    if (id == null) {
      throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    PermissionTicketStore ticketStore = authorization.getStoreFactory().getPermissionTicketStore();
    PermissionTicket ticket = ticketStore.findById(id, resourceServer.getId());

    if (ticket == null) {
      throw new ErrorResponseException(OAuthErrorException.INVALID_REQUEST, "invalid_ticket",
Response.Status.BAD_REQUEST);
    }

    if (!ticket.getOwner().equals(this.identity.getId()) && !this.identity.isResourceServer() &&
!ticket.getRequester().equals(this.identity.getId()))
      throw new ErrorResponseException("not_authorised", "permissions for [" + ticket.getResource() + "] can be
deleted only by the owner, the requester, or the resource server", Response.Status.FORBIDDEN);

    ticketStore.delete(id);

    return Response.noContent().build();
  }

  @GET
  @Produces("application/json")
  public Response find(@QueryParam("scopeId") String scopeId,
                       @QueryParam("resourceId") String resourceId,
                       @QueryParam("owner") String owner,
                       @QueryParam("requester") String requester,
                       @QueryParam("granted") Boolean granted,
                       @QueryParam("returnNames") Boolean returnNames,
                       @QueryParam("first") Integer firstResult,
                       @QueryParam("max") Integer maxResult) {
    StoreFactory storeFactory = authorization.getStoreFactory();
    PermissionTicketStore permissionTicketStore = storeFactory.getPermissionTicketStore();

    Map<String, String> filters = new HashMap<>();

    if (resourceId != null) {
```

```
            filters.put(PermissionTicket.RESOURCE, resourceId);
        }

        if (scopeId != null) {
            ScopeStore scopeStore = storeFactory.getScopeStore();
            Scope scope = scopeStore.findById(scopeId, resourceServer.getId());

            if (scope == null) {
                scope = scopeStore.findByName(scopeId, resourceServer.getId());
            }

            filters.put(PermissionTicket.SCOPE, scope != null ? scope.getId() : scopeId);
        }

        if (owner != null) {
            filters.put(PermissionTicket.OWNER, getUserId(owner));
        }

        if (requester != null) {
            filters.put(PermissionTicket.REQUESTER, getUserId(requester));
        }

        if (granted != null) {
            filters.put(PermissionTicket.GRANTED, granted.toString());
        }

        return Response.ok().entity(permissionTicketStore.find(filters, resourceServer.getId(), firstResult != null ?
firstResult : -1, maxResult != null ? maxResult : Constants.DEFAULT_MAX_RESULTS)
                .stream()
                    .map(permissionTicket -> ModelToRepresentation.toRepresentation(permissionTicket, authorization,
returnNames == null ? false : returnNames))
                    .collect(Collectors.toList()))
                .build();
    }

    private String getUserId(String userIdOrName) {
        UserProvider userProvider = authorization.getKeycloakSession().users();
        RealmModel realm = authorization.getRealm();
        UserModel userModel = userProvider.getUserById(userIdOrName, realm);

        if (userModel != null) {
            return userModel.getId();
        }

        userModel = userProvider.getUserByUsername(userIdOrName, realm);

        if (userModel != null) {
            return userModel.getId();
```

```
        }

        return userIdOrName;
    }
}
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*/
package org.keycloak.authorization.protection.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.Resource;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.authorization.model.Scope;
import org.keycloak.authorization.store.ResourceStore;
import org.keycloak.models.ClientModel;
import org.keycloak.models.TokenManager;
import org.keycloak.representations.idm.authorization.Permission;
import org.keycloak.representations.idm.authorization.PermissionRequest;
import org.keycloak.representations.idm.authorization.PermissionResponse;
import org.keycloak.representations.idm.authorization.PermissionTicketToken;
import org.keycloak.services.ErrorResponseException;
import org.keycloak.services.Urls;

import javax.ws.rs.core.Response;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.stream.Collectors;

/**
```

```
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class AbstractPermissionService {

  private final AuthorizationProvider authorization;
  private final KeycloakIdentity identity;
  private final ResourceServer resourceServer;

  public AbstractPermissionService(KeycloakIdentity identity, ResourceServer resourceServer,
AuthorizationProvider authorization) {
    this.identity = identity;
    this.resourceServer = resourceServer;
    this.authorization = authorization;
  }

  public Response create(List<PermissionRequest> request) {
    if (request == null || request.isEmpty()) {
      throw new ErrorResponseException("invalid_permission_request", "Invalid permission request.",
Response.Status.BAD_REQUEST);
    }

    return Response.status(Response.Status.CREATED).entity(new
PermissionResponse(createPermissionTicket(request))).build();
  }

  private List<Permission> verifyRequestedResource(List<PermissionRequest> request) {
    ResourceStore resourceStore = authorization.getStoreFactory().getResourceStore();
    List<Permission> requestedResources = new ArrayList<>();

    for (PermissionRequest permissionRequest : request) {
      String resourceSetId = permissionRequest.getResourceId();
      List<Resource> resources = new ArrayList<>();

      if (resourceSetId == null) {
        if (permissionRequest.getScopes() == null || permissionRequest.getScopes().isEmpty()) {
          throw new ErrorResponseException("invalid_resource_id", "Resource id or name not provided.",
Response.Status.BAD_REQUEST);
        }
      } else {
        Resource resource = resourceStore.findById(resourceSetId, resourceServer.getId());

        if (resource != null) {
          resources.add(resource);
        } else {
          Resource userResource = resourceStore.findByName(resourceSetId, identity.getId(),
this.resourceServer.getId());

          if (userResource != null) {
```

```
                resources.add(userResource);
            }

            if (!identity.isResourceServer()) {
                Resource serverResource = resourceStore.findByName(resourceSetId, this.resourceServer.getId());

                if (serverResource != null) {
                    resources.add(serverResource);
                }
            }
        }

        if (resources.isEmpty()) {
            throw new ErrorResponseException("invalid_resource_id", "Resource set with id [" + resourceSetId + "]
does not exists in this server.", Response.Status.BAD_REQUEST);
        }
      }

      if (resources.isEmpty()) {
        requestedResources.add(new Permission(null, verifyRequestedScopes(permissionRequest, null)));
      } else {
        for (Resource resource : resources) {
          requestedResources.add(new Permission(resource.getId(), verifyRequestedScopes(permissionRequest,
resource)));
        }
      }
    }

    return requestedResources;
  }

  private Set<String> verifyRequestedScopes(PermissionRequest request, Resource resource) {
    Set<String> requestScopes = request.getScopes();

    if (requestScopes == null) {
      return Collections.emptySet();
    }

    ResourceStore resourceStore = authorization.getStoreFactory().getResourceStore();

    return requestScopes.stream().map(scopeName -> {
      Scope scope = null;

      if (resource != null) {
        scope = resource.getScopes().stream().filter(scope1 ->
scope1.getName().equals(scopeName)).findFirst().orElse(null);

        if (scope == null && resource.getType() != null) {
```

```
                scope = resourceStore.findByType(resource.getType(), resourceServer.getId()).stream()
                        .filter(baseResource -> baseResource.getOwner().equals(resource.getResourceServer().getId()))
                        .flatMap(resource1 -> resource1.getScopes().stream())
                        .filter(baseScope -> baseScope.getName().equals(scopeName)).findFirst().orElse(null);
            }
        } else {
            scope = authorization.getStoreFactory().getScopeStore().findByName(scopeName,
resourceServer.getId());
        }

        if (scope == null) {
            throw new ErrorResponseException("invalid_scope", "Scope [" + scopeName + "] is invalid",
Response.Status.BAD_REQUEST);
        }

        return scope.getName();
    }).collect(Collectors.toSet());
  }

  private String createPermissionTicket(List<PermissionRequest> request) {
    List<Permission> permissions = verifyRequestedResource(request);

    String audience = Urls.realmIssuer(this.authorization.getKeycloakSession().getContext().getUri().getBaseUri(),
this.authorization.getRealm().getName());
    PermissionTicketToken token = new PermissionTicketToken(permissions, audience,
this.identity.getAccessToken());
    Map<String, List<String>> claims = new HashMap<>();

    for (PermissionRequest permissionRequest : request) {
      Map<String, List<String>> requestClaims = permissionRequest.getClaims();

      if (requestClaims != null) {
        claims.putAll(requestClaims);
      }
    }

    if (!claims.isEmpty()) {
      token.setClaims(claims);
    }

    return this.authorization.getKeycloakSession().tokens().encode(token);
  }
}
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*
```

```
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*/
package org.keycloak.authorization.protection.permission;

import org.keycloak.authorization.AuthorizationProvider;
import org.keycloak.authorization.common.KeycloakIdentity;
import org.keycloak.authorization.model.ResourceServer;
import org.keycloak.representations.idm.authorization.PermissionRequest;

import javax.ws.rs.Consumes;
import javax.ws.rs.POST;
import javax.ws.rs.Produces;
import javax.ws.rs.core.Response;
import java.util.List;

/**
* @author <a href="mailto:psilva@redhat.com">Pedro Igor</a>
*/
public class PermissionService extends AbstractPermissionService {

  private final AuthorizationProvider authorization;
  private final ResourceServer resourceServer;

  public PermissionService(KeycloakIdentity identity, ResourceServer resourceServer, AuthorizationProvider
authorization) {
    super(identity, resourceServer, authorization);
    this.resourceServer = resourceServer;
    this.authorization = authorization;
  }

  @POST
  @Consumes("application/json")
  @Produces("application/json")
  public Response create(List<PermissionRequest> request) {
    return super.create(request);
  }

}
```

2.362 keycloak-sssd-federation 4.8.3.Final

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2.363 keycloak-themes 4.8.3.Final

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  <ol class="breadcrumb">
    {{:: 'clients' | translate}}
    {{client.clientId}}
    {{:: 'authz-authorization' |
translate}}
    {{:: 'authz-
permissions' | translate}}
    <li data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}
    <li data-ng-hide="create">{{originalPolicy.name}}

  <h1 data-ng-show="create">{{:: 'authz-add-scope-permission' | translate}}</h1>
  <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

  <form class="form-horizontal" name="clientForm" novalidate>
    <fieldset class="border-top">

        <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
class="required">*</label>

          <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">

        <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>

```
        <div class="form-group">
          <label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
          <div class="col-sm-6">
            <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
          </div>
          <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
        </div>
        <div class="form-group clearfix">
          <label class="col-md-2 control-label" for="resources">{{:: 'authz-resource' | translate}}</label>

          <div class="col-md-6">
            <input type="hidden" ui-select2="resourcesUiSelect" data-ng-change="selectResource()"
id="resources" data-ng-model="selectedResource" data-placeholder="{{:: 'authz-any-resource' | translate}}..." />
          </div>
          <kc-tooltip>{{:: 'authz-permission-scope-resource.tooltip' | translate}}</kc-tooltip>
        </div>
        <div class="form-group clearfix" data-ng-show="selectedResource">
          <label class="col-md-2 control-label" for="resourceScopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>
          <div class="col-md-6">
            <select ui-select2 id="resourceScopes"
                data-ng-model="selectedScopes"
                data-placeholder="{{:: 'authz-any-scope' | translate}}..." multiple
                data-ng-required="selectedResource != null">
              <option ng-repeat="scope in resourceScopes" value="{{scope.id}}">{{scope.name}}</option>
            </select>
          </div>
          <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
        </div>
        <div class="form-group clearfix" data-ng-show="!selectedResource">
          <label class="col-md-2 control-label" for="scopes">{{:: 'authz-scopes' | translate}} <span
class="required">*</span></label>

          <div class="col-md-6">
            <input type="hidden" ui-select2="scopesUiSelect" id="scopes" data-ng-model="selectedScopes" data-
placeholder="{{:: 'authz-any-scope' | translate}}..." multiple data-ng-required="selectedResource == null" />
          </div>
          <kc-tooltip>{{:: 'authz-permission-scope-scope.tooltip' | translate}}</kc-tooltip>
        </div>
        <div class="form-group clearfix">
          <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
          <div class="col-sm-6">
            <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
              <thead>
              <tr>
                <th class="kc-table-actions" colspan="2">
                  <div class="form-inline col-md-12" style="width: 107%">
```

```
                        <div class="form-group" style="width: 100%">
                          <div class="input-group" style="width: 100%">
                            <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                          </div>
                        </div>
                      </div>
                    </th>
                    <th class="kc-table-actions">
                      <div class="pull-right" style="width: 100%">
                        <select id="create-policy" class="form-control" ng-model="policyType"
                            ng-options="p.name for p in policyProviders track by p.type"
                            data-ng-change="addPolicy(policyType);"
                            data-ng-hide="historyBackOnSaveOrCancel">
                          <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
                        </select>
                      </div>
                    </th>
                  </tr>
                  <tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
                    <th>{{:: 'name' | translate}}</th>
                    <th>{{:: 'description' | translate}}</th>
                    <th width="20%">{{:: 'actions' | translate}}</th>
                  </tr>
                  </thead>
                  <tbody>
                  <tr ng-repeat="policy in selectedPolicies">
                    <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
                    <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
                    <td>{{policy.description}}</td>
                    <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
                      {{:: 'remove' | translate}}
                    </td>
                  </tr>
                  <tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
                    <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
                  </tr>
                  </tbody>
                </table>
              </div>
              <kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
            </div>
            <div class="form-group clearfix">
              <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>
```

```
            <div class="col-sm-2">
              <select class="form-control" id="decisionStrategy"
                    data-ng-model="policy.decisionStrategy"
                    ng-change="selectDecisionStrategy()">
                <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
                <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
                <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
              </select>
            </div>

            <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
          </div>
          <input type="hidden" data-ng-model="policy.type"/>
        </fieldset>
        <div class="form-group" data-ng-show="access.manageAuthorization">
          <div class="col-md-10 col-md-offset-2">
            <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
            <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
          </div>
        </div>
      </form>
    </div>

    <kc-menu></kc-menu>
    <div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

      <ol class="breadcrumb">
        <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
        <li data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</li>
        <li data-ng-hide="create">{{originalPolicy.name}}</li>
      </ol>

      <h1 data-ng-show="create">{{:: 'authz-add-resource-permission' | translate}}</h1>
      <h1 data-ng-hide="create">{{originalPolicy.name|capitalize}}<i class="pficon pficon-delete clickable" data-ng-
click="remove()"></i></h1>

      <form class="form-horizontal" name="clientForm" novalidate>
        <fieldset class="border-top">
          <div class="form-group">
            <label class="col-md-2 control-label" for="name">{{:: 'name' | translate}} <span
```

```
class="required">*</span></label>
            <div class="col-sm-6">
              <input class="form-control" type="text" id="name" name="name" data-ng-model="policy.name"
autofocus required data-ng-blur="checkNewNameAvailability()">
            </div>
            <kc-tooltip>{{:: 'authz-permission-name.tooltip' | translate}}</kc-tooltip>
          </div>
          <div class="form-group">
            <label class="col-md-2 control-label" for="description">{{:: 'description' | translate}} </label>
            <div class="col-sm-6">
              <input class="form-control" type="text" id="description" name="description" data-ng-
model="policy.description">
            </div>
            <kc-tooltip>{{:: 'authz-permission-description.tooltip' | translate}}</kc-tooltip>
          </div>
          <div class="form-group">
            <label class="col-md-2 control-label" for="applyToResourceTypeFlag">{{:: 'authz-permission-resource-
apply-to-resource-type' | translate}}</label>
            <div class="col-md-6">
              <input ng-model="applyToResourceTypeFlag" id="applyToResourceTypeFlag" onoffswitch data-ng-
click="applyToResourceType()"/>
            </div>
            <kc-tooltip>{{:: 'authz-permission-resource-apply-to-resource-type.tooltip' | translate}}</kc-tooltip>
          </div>
          <div class="form-group clearfix" data-ng-hide="applyToResourceTypeFlag">
            <label class="col-md-2 control-label" for="resources">{{:: 'authz-resources' | translate}} <span
class="required">*</span></label>

            <div class="col-md-6">
              <input type="hidden" ui-select2="resourcesUiSelect" id="resources" data-ng-model="selectedResource"
data-placeholder="{{:: 'authz-select-resource' | translate}}..." data-ng-required="!applyToResourceTypeFlag"/>
            </div>
            <kc-tooltip>{{:: 'authz-permission-resource-resource.tooltip' | translate}}</kc-tooltip>
          </div>
          <div class="form-group clearfix" data-ng-show="applyToResourceTypeFlag">
            <label class="col-md-2 control-label" for="resourceType">{{:: 'authz-resource-type' | translate}} <span
class="required">*</span></label>

            <div class="col-md-6">
              <input class="form-control" type="text" id="resourceType" name="policy.resourceType" data-ng-
model="policy.resourceType" data-ng-required="applyToResourceTypeFlag">
            </div>

            <kc-tooltip>{{:: 'authz-permission-resource-type.tooltip' | translate}}</kc-tooltip>
          </div>
          <div class="form-group clearfix">
            <label class="col-md-2 control-label" for="policies">{{:: 'authz-policy-apply-policy' | translate}}</label>
            <div class="col-sm-6">
```

```
            <table class="table table-striped table-bordered" style="margin-top: 0px" id="selected-policies">
              <thead>
              <tr>
                <th class="kc-table-actions" colspan="2">
                  <div class="form-inline col-md-12" style="width: 107%">
                    <div class="form-group" style="width: 100%">
                      <div class="input-group" style="width: 100%">
                        <input type="hidden" ui-select2="policiesUiSelect" id="policies" data-ng-
change="selectPolicy(selectedPolicy);" data-ng-model="selectedPolicy" data-placeholder="{{:: 'authz-select-a-
policy' | translate}}..."/>
                      </div>
                    </div>
                  </div>
                </th>
                <th class="kc-table-actions">
                  <div class="pull-right" style="width: 100%">
                    <select id="create-policy" class="form-control" ng-model="policyType"
                        ng-options="p.name for p in policyProviders track by p.type"
                        data-ng-change="addPolicy(policyType);"
                        data-ng-hide="historyBackOnSaveOrCancel">
                      <option value="" disabled selected>{{:: 'authz-create-policy' | translate}}...</option>
                    </select>
                  </div>
                </th>
              </tr>
              <tr data-ng-hide="!selectedPolicies || selectedPolicies.length == 0">
                <th>{{:: 'name' | translate}}</th>
                <th>{{:: 'description' | translate}}</th>
                <th width="20%">{{:: 'actions' | translate}}</th>
              </tr>
              </thead>
              <tbody>
              <tr ng-repeat="policy in selectedPolicies">
                <td data-ng-hide="historyBackOnSaveOrCancel"><a href="" data-ng-
click="detailPolicy(policy)">{{policy.name}}</a></td>
                <td data-ng-show="historyBackOnSaveOrCancel">{{policy.name}}</td>
                <td>{{policy.description}}</td>
                <td class="kc-action-cell" ng-click="removePolicy(selectedPolicies, policy);" style="vertical-align:
middle">
                  {{:: 'remove' | translate}}
                </td>
              </tr>
              <tr data-ng-show="!selectedPolicies || selectedPolicies.length == 0">
                <td class="text-muted" colspan="3">{{:: 'authz-no-policies-assigned' | translate}}</td>
              </tr>
              </tbody>
            </table>
          </div>
```

```
            <kc-tooltip>{{:: 'authz-policy-apply-policy.tooltip' | translate}}</kc-tooltip>
          </div>
          <div class="form-group clearfix">
            <label class="col-md-2 control-label" for="decisionStrategy">{{:: 'authz-policy-decision-strategy' |
translate}}</label>

            <div class="col-sm-2">
              <select class="form-control" id="decisionStrategy"
                    data-ng-model="policy.decisionStrategy"
                    ng-change="selectDecisionStrategy()">
                <option value="UNANIMOUS">{{:: 'authz-policy-decision-strategy-unanimous' |
translate}}</option>
                <option value="AFFIRMATIVE">{{:: 'authz-policy-decision-strategy-affirmative' |
translate}}</option>
                <option value="CONSENSUS">{{:: 'authz-policy-decision-strategy-consensus' | translate}}</option>
              </select>
            </div>

            <kc-tooltip>{{:: 'authz-policy-decision-strategy.tooltip' | translate}}</kc-tooltip>
          </div>
          <input type="hidden" data-ng-model="policy.type"/>
        </fieldset>

        <div class="form-group" data-ng-show="access.manageAuthorization">
          <div class="col-md-10 col-md-offset-2">
            <button kc-save data-ng-disabled="!changed">{{:: 'save' | translate}}</button>
            <button kc-reset data-ng-disabled="!changed">{{:: 'cancel' | translate}}</button>
          </div>
        </div>
      </form>
    </div>

    <kc-menu></kc-menu>
    <div class="col-sm-9 col-md-10 col-sm-push-3 col-md-push-2">

      <ol class="breadcrumb">
        <li><a href="#/realms/{{realm.realm}}/clients">{{:: 'clients' | translate}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}">{{client.clientId}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server">{{:: 'authz-authorization' |
translate}}</a></li>
        <li><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/permission">{{:: 'authz-
permissions' | translate}}</a></li>
      </ol>

      <kc-tabs-resource-server></kc-tabs-resource-server>

      <table class="table table-striped table-bordered">
        <thead>
```

```
        <tr>
          <th class="kc-table-actions" colspan="5">
            <div class="form-inline">
              <div class="form-group">
                {{:: 'filter' | translate}}:  
                <div class="input-group">
                  <input type="text" placeholder="{{:: 'name' | translate}}" data-ng-model="query.name"
class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                  <div class="input-group-addon">
                    <i class="fa fa-search" id="policySearch" type="submit" data-ng-click="firstPage()"></i>
                  </div>
                </div>
                <div class="input-group">
                  <input type="text" placeholder="{{:: 'authz-resource' | translate}}" data-ng-
model="query.resource" class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                  <div class="input-group-addon">
                    <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                  </div>
                </div>
                <div class="input-group">
                  <input type="text" placeholder="{{:: 'authz-scope' | translate}}" data-ng-model="query.scope"
class="form-control search" onkeydown="if (event.keyCode == 13)
document.getElementById('policySearch').click()">
                  <div class="input-group-addon">
                    <i class="fa fa-search" type="submit" data-ng-click="firstPage()"></i>
                  </div>
                </div>
                <div class="input-group">
                  <select class="form-control search" data-ng-model="query.type"
                      ng-options="p.type as p.name group by p.group for p in policyProviders track by p.type"
data-ng-change="firstPage()">
                    <option value="" selected ng-click="query.type = ''">{{:: 'authz-all-types' |
translate}}</option>
                  </select>
                </div>
              </div>
              <div class="pull-right">
                <select class="form-control" ng-model="policyType"
                    ng-options="p.name for p in policyProviders track by p.type"
                    id="create-permission"
                    data-ng-change="addPolicy(policyType);">
                  <option value="" disabled selected>{{:: 'authz-create-permission' | translate}}...</option>
                </select>
              </div>
            </div>
          </th>
```

```
        </tr>
        <tr data-ng-hide="policies.length == 0">
          <th width="1%"></th>
          <th>{{:: 'name' | translate}}</th>
          <th>{{:: 'description' | translate}}</th>
          <th width="7%">{{:: 'type' | translate}}</th>
          <th width="6%" style="text-align: center;">{{:: 'actions' | translate}}</th>
        </tr>
      </thead>
      <tfoot data-ng-show="policies && (policies.length >= query.max || query.first > 0)">
      <tr>
        <td colspan="5">
          <div class="table-nav">
            <button data-ng-click="firstPage()" class="first" ng-disabled="query.first == 0">{{:: 'first-page' |
translate}}</button>
            <button data-ng-click="previousPage()" class="prev" ng-disabled="query.first == 0">{{:: 'previous-
page' | translate}}</button>
            <button data-ng-click="nextPage()" class="next" ng-disabled="policies.length < query.max">{{:: 'next-
page' | translate}}</button>
          </div>
        </td>
      </tr>
      </tfoot>
      <tbody>
        <tr ng-repeat-start="policy in policies | filter: {name: search.name, type: search.type} | orderBy:'name'" data-
ng-click="showDetails(policy, $event);" style="cursor: pointer">
          <td>
            <span ng-if="!policy.details || !policy.details.loaded" class="fa fa-angle-right"></span>
            <span ng-if="policy.details && policy.details.loaded" class="fa fa-angle-right fa-angle-down"></span>
          </td>
          <td><a href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-
server/permission/{{policy.type}}/{{policy.id}}">{{policy.name}}</a></td>
          <td>{{policy.description}}</td>
          <td>{{policy.type}}</td>
          <td align="center">
            <div class="dropdown dropdown-kebab-pf">
              <button class="btn btn-default" ng-click="delete(policy);">{{:: 'delete' | translate}}
              </button>
            </div>
          </td>
        </tr>
        <tr ng-if="policy.details && policy.details.loaded" ng-repeat-end="">
          <td colspan="5" style="background-color: #ffffff">
            <div class="list-group-item-container container-fluid">
              <div class="close" data-ng-click="showDetails(policy, $event);" style="padding-top: 10px">
                <span class="pficon pficon-close"></span>
              </div>
              <div class="row">
```

```
                    <div class="col-md-12">
                      <dl class="dl-horizontal">
                        <dt>{{:: 'authz-associated-policies' | translate}}</dt>
                        <dd>
                          <span data-ng-show="policy.associatedPolicies && !policy.associatedPolicies.length">{{::
'authz-no-policies-available' | translate}}</span>
                          <span ng-repeat="dep in policy.associatedPolicies" data-ng-
show="policy.associatedPolicies.length > 0"><a
href="#/realms/{{realm.realm}}/clients/{{client.id}}/authz/resource-server/{{dep.type == 'scope' || dep.type ==
'resource' ? 'permission' : 'policy'}}/{{dep.type}}/{{dep.id}}">{{dep.name}}</a>{{$last ? '' : ', '}}</span>
                        </dd>
                      </dl>
                    </div>
                  </div>
                </div>
              </td>
            </tr>
            <tr data-ng-show="(policies | filter:search).length == 0">
              <td class="text-muted" colspan="3" data-ng-show="search.name">{{:: 'no-results' | translate}}</td>
              <td class="text-muted" colspan="3" data-ng-hide="search.name">{{:: 'authz-no-permissions-available' |
translate}}</td>
            </tr>
          </tbody>
        </table>
      </div>

      <kc-menu></kc-menu>
```

2.364 keycloak-wildfly-adduser 4.8.3.Final

2.365 keycloak-wildfly-extensions 4.8.3.Final

2.366 keycloak-wildfly-server-subsystem 4.8.3.Final

2.367 kie-api 7.11.0.Final

2.368 kie-ci 7.11.0.Final

2.369 kie-internal 7.11.0.Final

2.370 kie-soup-commons 7.11.0.Final

2.371 kie-soup-maven-integration 7.11.0.Final

2.372 kie-soup-maven-support 7.11.0.Final

2.373 kie-soup-project-datamodel-api 7.11.0.Final

2.374 kie-soup-project-datamodel-commons 7.11.0.Final

2.375 libthrift 0.11.0

2.376 liquibase-core 3.5.5

2.376.1 Available under license :

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The snowball stemmers in
 analysis/common/src/java/net/sf/snowball
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The KStem stemmer in

analysis/common/src/org/apache/lucene/analysis/en
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The Arabic,Persian,Romanian,Bulgarian, and Hindi analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
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:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
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The Polish analyzer (stempel) comes with a default
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
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2.385 maven-aether-provider 3.3.9

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2.388 maven-compat 3.3.9

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2.389 maven-core 3.3.9

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2.390 maven-model 3.3.9

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```
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// ===============================================================

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 $Revision$ $Date$
*/
@SuppressWarnings( "all" )
public class Contributor
  implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

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

  /**
   * The full name of the contributor.
   */
  private String name;

  /**
   * The email address of the contributor.
   */
  private String email;

  /**
   * The URL for the homepage of the contributor.
   */
  private String url;

  /**
   * The organization to which the contributor belongs.
   */
  private String organization;

  /**
   * The URL of the organization.
```

```
 */
private String organizationUrl;

/**
 * Field roles.
 */
private java.util.List<String> roles;

/**
 *
 *
 *              The timezone the contributor is in. Typically,
 * this is a number in the range
 *              <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 *              or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 *
 */
private String timezone;

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

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;


  //-----------/
 //- 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 )

/**
 * Method clone.
 *
 * @return Contributor
 */
public Contributor clone()
{
    try
    {
        Contributor copy = (Contributor) super.clone();

        if ( this.roles != null )
        {
            copy.roles = new java.util.ArrayList<String>();
            copy.roles.addAll( this.roles );
        }

        if ( this.properties != null )
        {
            copy.properties = (java.util.Properties) this.properties.clone();
        }

        if ( copy.locations != null )
        {
            copy.locations = new java.util.LinkedHashMap( copy.locations );
        }

        return copy;
    }
    catch ( java.lang.Exception ex )
    {
        throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
            + " does not support clone()" ).initCause( ex );
    }
} //-- Contributor clone()
```

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

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
   return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

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

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

/**
 * Get the URL of the organization.
 *
 * @return String
 */
public String getOrganizationUrl()
```

```
{
   return this.organizationUrl;
} //-- String getOrganizationUrl()

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

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

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

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

/**
 * Get the timezone the contributor is in. Typically, this is a
 * number in the range
 *             <a
 * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
 * to <a
 * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
 *             or a valid time zone id like
 * "America/Montreal" (UTC-05:00) or "Europe/Paris"
 * (UTC+01:00).
 *
 * @return String
 */
public String getTimezone()
```

```
{
    return this.timezone;
} //-- String getTimezone()

/**
 * Get the URL for the homepage of the contributor.
 *
 * @return String
 */
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 )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
```

```
            this.locations.put( key, location );
        }
    } //-- void setLocation( Object, InputLocation )

    /**
     * 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<String> roles )
    {
        this.roles = roles;
    } //-- void setRoles( java.util.List )

    /**
     * Set the timezone the contributor is in. Typically, this is a
     * number in the range
     *              <a
     * href="http://en.wikipedia.org/wiki/UTC%E2%88%9212:00">-12</a>
     * to <a
     * href="http://en.wikipedia.org/wiki/UTC%2B14:00">+14</a>
     *              or a valid time zone id like
     * "America/Montreal" (UTC-05:00) or "Europe/Paris"
     * (UTC+01:00).
     *
     * @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 )

}
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// =================================================================

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 $Revision$ $Date$
*/
@SuppressWarnings( "all" )
public class License
  implements java.io.Serializable, java.lang.Cloneable, org.apache.maven.model.InputLocationTracker
{

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

  /**
   * The full legal name of the license.
   */
  private String name;

  /**
   * The official url for the license text.
   */
  private String url;

  /**
   *
   *
   *            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>
   *
   *
   */
  private String distribution;

  /**
```

```
 * Addendum information pertaining to this license.
 */
private String comments;

/**
 * Field locations.
 */
private java.util.Map<Object, InputLocation> locations;


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

/**
 * Method clone.
 *
 * @return License
 */
public License clone()
{
   try
   {
      License copy = (License) super.clone();

      if ( copy.locations != null )
      {
         copy.locations = new java.util.LinkedHashMap( copy.locations );
      }

      return copy;
   }
   catch ( java.lang.Exception ex )
   {
      throw (java.lang.RuntimeException) new java.lang.UnsupportedOperationException( getClass().getName()
         + " does not support clone()" ).initCause( ex );
   }
} //-- License clone()

/**
 * Get addendum information pertaining to this license.
 *
 * @return String
 */
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>
 *
 * @return String
 */
public String getDistribution()
{
   return this.distribution;
} //-- String getDistribution()

/**
 *
 *
 * @param key
 * @return InputLocation
 */
public InputLocation getLocation( Object key )
{
   return ( locations != null ) ? locations.get( key ) : null;
} //-- InputLocation getLocation( Object )

/**
 * Get the full legal name of the license.
 *
 * @return String
 */
public String getName()
{
   return this.name;
} //-- String getName()

/**
 * Get the official url for the license text.
 *
 * @return String
 */
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 )

/**
 *
 *
 * @param key
 * @param location
 */
public void setLocation( Object key, InputLocation location )
{
    if ( location != null )
    {
        if ( this.locations == null )
        {
            this.locations = new java.util.LinkedHashMap<Object, InputLocation>();
        }
        this.locations.put( key, location );
    }
```

```
  } //-- void setLocation( Object, InputLocation )

  /**
   * 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 )

}
```

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2.391 maven-model-builder 3.3.9

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2.392 maven-plugin-api 3.3.9

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2.408 narayana-jts-integration 5.9.0.Final

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2.455 openshift-restclient-java 6.1.3.Final

2.456 opentracing-api 0.31.0

2.457 opentracing-concurrent 0.1.0

2.458 opentracing-jaxrs2 0.1.7

2.459 opentracing-noop 0.31.0

2.460 opentracing-tracerresolver 0.1.5

2.461 opentracing-util 0.31.0

2.462 opentracing-web-servlet-filter 0.1.0

2.463 org.eclipse.jgit 5.0.2.201807311906-r

2.464 org.eclipse.sisu.inject 0.3.2

2.465 org.eclipse.sisu.plexus 0.3.2

2.466 org.osgi.annotation.versioning 1.0.0

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2.467 owasp-java-html-sanitizer 20180219.1

2.468 ParaNamer Core 2.3

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2.469 picketbox 5.0.3.Final

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*/
package org.jboss.security.authorization;

/**
* <p>
* Marker interface for permission objects.
* </p>
*
* @author <a href="mailto:sguilhen@redhat.com">Stefan Guilhen</a>
*/
public interface Permission
{

}
```

2.470 picketbox-acl-impl 5.0.3.Final

2.471 picketbox-commons 1.0.0.final

2.472 picketbox-identity-impl 5.0.3.Final

2.473 picketbox-infinispan 5.0.3.Final

2.474 picketbox-spi-bare 5.0.3.Final

2.475 picketlink-api 2.5.5.SP12

2.476 picketlink-common 2.5.5.SP12

2.477 picketlink-config 2.5.5.SP12

2.478 picketlink-federation 2.5.5.SP12

2.479 picketlink-idm-api 2.5.5.SP12

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```
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*/

package org.picketlink.idm.permission.spi;

import java.io.Serializable;

import org.picketlink.idm.model.IdentityType;

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

  public enum VotingResult {
     ALLOW, DENY, NOT_APPLICABLE
  }

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

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

package org.picketlink.idm.permission.spi;

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

import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.spi.PermissionVoter.VotingResult;

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

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

  public boolean resolvePermission(IdentityType recipient, Object resource, String operation) {
    boolean permit = false;

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

    return permit;
  }

  public boolean resolvePermission(IdentityType recipient, Class<?> resourceClass, Serializable identifier, String
operation) {
    boolean permit = false;

    for (PermissionVoter voter : voters) {
      VotingResult result = voter.hasPermission(recipient, resourceClass, identifier, operation);
      if (VotingResult.ALLOW.equals(result)) {
        permit = true;
      }
```

```
            else if (VotingResult.DENY.equals(result)) {
               return false;
            }
         }

         return permit;
      }
   }
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   package org.picketlink.idm.permission;

   import java.io.Serializable;

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

     private Class<?> resourceClass;

     private Serializable resourceIdentifier;
```

```
private String operation;

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

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

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

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

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

/**
 * Returns the permission operation
 *
 * @return
 */
public String getOperation() {
   return operation;
```

```
  }
}
package org.picketlink.idm.permission;

import java.io.Serializable;

import org.picketlink.idm.query.RelationshipCriteria;

/**
* Represents a "fuzzy" resource permission that is assigned via a relationship criteria, i.e. it is granted to the
* identities for which relationships exist that match the specified criteria.  The assigneeProperty property is
* the property name of the matching relationship that represents the identity for which the permission is assigned.
* Standard privilege inheritance rules apply.
*
* @author Shane Bryzak
*
*/
public class FuzzyPermission extends Permission {
  private RelationshipCriteria criteria;
  private String assigneeProperty;

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

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

  public RelationshipCriteria getCriteria() {
     return criteria;
  }

  public String getAssigneeProperty() {
     return assigneeProperty;
  }
}
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package org.picketlink.idm.permission.annotations;

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

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

import org.picketlink.idm.permission.acl.spi.PermissionHandler;

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

  String name() default "";
}
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package org.picketlink.idm.permission.annotations;

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

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

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

import java.lang.annotation.Documented;
import java.lang.annotation.Inherited;
import java.lang.annotation.Retention;
import java.lang.annotation.Target;

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

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

  /**
   * The bit mask value representing this operation
   */
  long mask() default 0L;

  /**
   * If set to true, this represents a class operation, and not an operation on an instance of the class
   */
  boolean classOperation() default false;
}
package org.picketlink.idm.permission;

import java.io.Serializable;

import org.picketlink.idm.model.IdentityType;

/**
* Represents a resource permission that is assigned to a specific IdentityType.
*
* @author Shane Bryzak
*/
```

```
public class IdentityPermission extends Permission {
  private IdentityType assignee;

  public IdentityPermission(Object resource, IdentityType assignee, String operation) {
     super(resource, operation);
     this.assignee = assignee;
  }

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

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

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

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

import java.io.Serializable;
import java.util.HashSet;
```

```
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;

/**
* Manages a set of PermissionHandler instances that overall define a "policy" for
* how persistent resource permissions are mapped and managed.
*
* @author Shane Bryzak
*/
public class PermissionHandlerPolicy {
  private Map<Class<?>, PermissionHandler> classHandlers = new ConcurrentHashMap<Class<?>,
PermissionHandler>();

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

  public PermissionHandlerPolicy(Set<PermissionHandler> handlers) {
    if (handlers == null || handlers.isEmpty()) {
      registeredHandlers.add(new EntityPermissionHandler());
      registeredHandlers.add(new ClassPermissionHandler());
      registeredHandlers.add(new StringPermissionHandler());
    }
  }

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

    PermissionHandler handler = getHandlerForResource(resource);

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

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

    PermissionHandler handler = getHandlerForResource(resource);

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

    return handler.unwrapResourceClass(resource);
  }
```

```
  private PermissionHandler getHandlerForResource(Object resource) {
    PermissionHandler handler = null;

    if (resource.getClass().isAnnotationPresent(PermissionsHandledBy.class)) {
      Class<? extends PermissionHandler> handlerClass =
          resource.getClass().getAnnotation(PermissionsHandledBy.class).value();

      if (handlerClass != PermissionHandler.class) {
        try {
          handler = handlerClass.newInstance();
          classHandlers.put(resource.getClass(), handler);
        }
        catch (Exception ex) {
          throw new RuntimeException("Error instantiating IdentifierStrategy for object " + resource, ex);
        }
      }
    }

    for (PermissionHandler s : registeredHandlers) {
      if (s.canHandle(resource.getClass())) {
        handler = s;

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

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

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

    return handler;
  }

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

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

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

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


/**
* Handles the generation of permission resource identifiers, and is responsible for the
* marshaling / unmarshaling of permissions
*
* @author Shane Bryzak
*/
public interface PermissionHandler {
  /**
   * Returns true if the implementation can handle resources of the specified class
   *
   * @param resourceClass
   * @return
   */
  boolean canHandle(Class<?> resourceClass);

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

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

```
     * @return
     */
    Class<?> unwrapResourceClass(Object resource);

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

    /**
     * Returns a set containing the available permissions for a particular resource instance.  If there are no hard coded
     * permissions defined (i.e. any permission is allowed) then this method must return an empty set.
     *
     * @param resourceClass
     * @return
     */
    Set<String> listInstanceOperations(Class<?> resourceClass);

}
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*/

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

import java.util.HashMap;
import java.util.HashSet;
import java.util.Map;
import java.util.Set;
import java.util.concurrent.ConcurrentHashMap;
```

```
import org.picketlink.idm.permission.annotations.AllowedOperation;
import org.picketlink.idm.permission.annotations.AllowedOperations;

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

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

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

  private synchronized void initOperations(Class<?> cls) {
     if (!instanceOperations.containsKey(cls)) {

        Map<String, Long> instanceOps = new HashMap<String, Long>();
        Map<String, Long> classOps = new HashMap<String, Long>();

        boolean useMask = false;

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

        if (p != null) {
           AllowedOperation[] operations = p.value();
           if (operations != null) {
              for (AllowedOperation operation : operations) {

                 if (operation.classOperation()) {
                    classOps.put(operation.value(), operation.mask());
                 } else {
                    instanceOps.put(operation.value(), operation.mask());
                 }

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

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

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

            for (String op : ops) {

                Long mask = instanceOps.containsKey(op) ? instanceOps.get(op) : classOps.get(op);
                if (masks.contains(mask)) {
                    throw new IllegalArgumentException("Class " + cls.getName() +
                            " defines a duplicate mask for permission operation [" + op + "]");
                }

                if (mask == 0) {
                    throw new IllegalArgumentException("Class " + cls.getName() +
                            " must define a valid mask value for operation [" + op + "]");
                }

                if ((mask & (mask - 1)) != 0) {
                    throw new IllegalArgumentException("Class " + cls.getName() +
                            " must define a mask value that is a power of 2 for operation [" + op + "]");
                }

                masks.add(mask);
            }
        }

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

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

    private Class<?> resourceClass;

    public PermissionSet(Class<?> resourceClass, String members) {
        this.resourceClass = resourceClass;
        addMembers(members);
    }

    public void addMembers(String members) {
        if (members == null) {
```

```
            return;
        }

        if (usesMask.get(resourceClass)) {
            // bit mask-based actions
            long vals = Long.valueOf(members);

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

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

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

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

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

    public boolean isEmpty() {
        return permissions.isEmpty();
    }

    @Override
    public String toString() {
```

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

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

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

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

    return new PermissionSet(resourceClass, members);
}

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

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

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

    return permissions;
}

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

```
            initOperations(resourceClass);
        }

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

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

        return permissions;
    }
}
package org.picketlink.idm.permission.acl.spi;

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

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

/**
* Permission Store interface
*
* @author Shane Bryzak
*/
public interface PermissionStore {

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

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

    /**
     * Returns a List value containing all permissions for the specified resource, having the specified operation
```

```
     *
     * @param resource
     * @param permission
     * @return
     */
    List<Permission> listPermissions(IdentityContext context, Object resource, String operation);

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

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

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

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

    /**
     * Revokes the specified permission
```

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

    /**
     * Revokes all permissions for the specified resource
     *
     * @param resource
     */
    void revokeAllPermissions(IdentityContext context, Object resource);
}
package org.picketlink.idm.permission.acl.spi;

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

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

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

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

    private void checkResourceValid(Object resource) {
        if (!(resource instanceof String)) {
            throw new IllegalArgumentException("Resource [" + resource + "] must be instance of String");
        }
    }
```

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

  @Override
  public Set<String> listInstanceOperations(Class<?> resourceClass) {
     return Collections.emptySet();
  }
}
package org.picketlink.idm.permission.acl.spi;

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

import java.io.Serializable;
import java.lang.annotation.Annotation;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;

import static org.picketlink.common.reflection.Reflections.classForName;

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

  private static final String SEPARATOR = ":";

  private Class<? extends Annotation> entityAnnotationClass = null;

  private Class<? extends Annotation> idAnnotationClass = null;

  private Map<Class<?>, List<Property<Serializable>>> idProperties =
        new ConcurrentHashMap<Class<?>, List<Property<Serializable>>>();

  public EntityPermissionHandler() {
     try {
        entityAnnotationClass = classForName("javax.persistence.Entity");
        idAnnotationClass = classForName("javax.persistence.Id");
     } catch (ClassNotFoundException ex) {
```

```
        // Entity permissions not supported
    }
}

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

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

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

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

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

        idProperties.put(resourceClass, props);
    }
}

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

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

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


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

import org.picketlink.idm.PartitionManager;
import org.picketlink.idm.PermissionManager;
import org.picketlink.idm.RelationshipManager;
import org.picketlink.idm.model.IdentityType;
import org.picketlink.idm.permission.IdentityPermission;
import org.picketlink.idm.permission.Permission;
import org.picketlink.idm.permission.spi.PermissionVoter;

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

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

    private final PartitionManager partitionManager;

    public PersistentPermissionVoter(PartitionManager partitionManager) {
```

```
        this.partitionManager = partitionManager;
    }

    public VotingResult hasPermission(IdentityType recipient, Object resource, String operation) {
        if (recipient == null) {
            throw new IllegalArgumentException("recipient must not be null");
        }


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

        return checkPermission(recipient, permissions);
    }

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

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

        return checkPermission(recipient, permissions);
    }

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

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

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

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

        return VotingResult.NOT_APPLICABLE;
    }
}
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*/

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

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

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

/**
* An Identifier strategy for class-based permission checks
*
* @author Shane Bryzak
*/
public class ClassPermissionHandler extends BaseAbstractPermissionHandler implements PermissionHandler {
  private Map<Class<?>, String> identifierNames = new ConcurrentHashMap<Class<?>, String>();

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

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

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

  private String getIdentifierName(Class<?> cls) {
     if (!identifierNames.containsKey(cls)) {
```

```
            String name = null;

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

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

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

         return identifierNames.get(cls);
      }

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

2.480 picketlink-idm-impl 2.5.5.SP12

2.481 picketlink-idm-simple-schema 2.5.5.SP12

2.482 picketlink-impl 2.5.5.SP12

2.483 picketlink-wildfly8 2.5.5.SP12

2.484 Plexus Security Dispatcher Component 1.3

2.485 plexus-cipher 1.7

2.486 plexus-classworlds 2.5.2

2.487 plexus-component-annotations 1.6

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2.519 rxjava 2.1.16

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2.521 saaj-impl 1.3.16-jbossorg-1

2.522 serializer 2.7.1.jbossorg-4

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2.527 smallrye-config 1.3.3

2.528 smallrye-health 1.0.2

2.529 smallrye-opentracing 1.1.1

2.530 SnakeYAML 1.14

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cat snakeyaml-1.12-sources/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java

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cat snakeyaml-1.12-sources/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

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

```
<title>Weld Probe HTML Client - List of Dependencies and
  Licenses</title>
<style type="text/css">
table {
 border-collapse: collapse;
}

table, th, td {
 border: 1px solid silver;
}

th {
 text-align: left;
 background-color: silver;
}

th, td {
 padding: 4px;
 text-align: left;
}

tr:nth-child(even) {
 background-color: snow;
}
</style>
</head>
<body>
  <h1>Weld Probe HTML Client - List of Dependencies and Licenses</h1>
  <p>The following material has been provided for informational
     purposes only, and should not be relied upon or construed as a
     legal opinion or legal advice.</p>
  <table>
     <tr>
        <th>Project Name</th>
        <th>Version</th>
        <th>Remote Licenses</th>
        <th>Local Licenses</th>
     </tr>
     <tr>
        <td>Bootstrap</td>
        <td>3.3.1</td>
        <td><a
           href="https://github.com/twbs/bootstrap/blob/v3.3.1/LICENSE">MIT
              License</a></td>
        <td><a href="bootstrap-license.txt">bootstrap-license.txt</a></td>
     </tr>
     <tr>
        <td>D3</td>
```

```
    <td>3.5.2</td>
    <td><a
      href="https://github.com/d3/d3/blob/v3.5.2/LICENSE">BSD
        3-Clause License</a></td>
    <td><a href="d3-license.txt">d3-license.txt</a></td>
  </tr>
  <tr>
    <td>Ember.js</td>
    <td>1.9.0</td>
    <td><a
      href="https://github.com/emberjs/ember.js/blob/master/LICENSE">MIT
        License</a></td>
    <td><a href="ember-license.txt">ember-license.txt</a></td>
  </tr>
  <tr>
    <td>Font Awesome</td>
    <td>4.2.0</td>
    <td><a
      href="https://github.com/FortAwesome/Font-Awesome/blob/master/LICENSE.txt">CC
        BY 4.0 License, SIL OFL 1.1 License, MIT License</a><br></td>
    <td><a href="font-awesome-license.txt">font-awesome-license.txt</a></td>
  </tr>
  <tr>
    <td>Handlebars.js</td>
    <td>2.0.0</td>
    <td><a
      href="https://github.com/wycats/handlebars.js/blob/v2.0.0/LICENSE">MIT
        License</a></td>
    <td><a href="handlebars-license.txt">handlebars-license.txt</a></td>
  </tr>
  <tr>
    <td>Highlight.js</td>
    <td>8.9.1</td>
    <td><a
      href="https://github.com/isagalaev/highlight.js/blob/8.9.1/LICENSE">BSD
        License</a></td>
    <td><a href="highlight-license.txt">highlight-license.txt</a></td>
  </tr>
  <tr>
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    <td><a
      href="https://github.com/jquery/jquery/blob/2.2.1/LICENSE.txt">BSD
        License</a></td>
    <td><a href="jquery-license.txt">jquery-license.txt</a></td>
  </tr>
  <tr>
    <td>Moment.js</td>
```

```
        <td>2.2.1</td>
        <td><a
          href="https://github.com/moment/momentjs.com/blob/master/LICENSE">MIT
            License</a></td>
        <td><a href="moment-license.txt">moment-license.txt</a></td>
      </tr>
    </table>
  </body>
  </html>
```

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2.561 weld-spi 3.0.SP4

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2.563 wildfly-appclient 14.0.1.Final

2.564 wildfly-batch-jberet 14.0.1.Final

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2.566 wildfly-cli 6.0.2.Final

2.567 wildfly-client-all 14.0.1.Final

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* limitations under the License.
*/

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
* The permission to run as another principal within some security domain.  Note that this permission is checked
```

```
relative
* to the security domain that the user is authenticated to.  The principal name is the effective name after all rewrite
* operations have taken place.
*/
public final class RunAsPrincipalPermission extends AbstractNameOnlyPermission<RunAsPrincipalPermission> {

  private static final long serialVersionUID = -3361334389433669815L;

  /**
   * Construct a new instance.
   *
   * @param name the principal name, or {@code *} for global run-as permissions
   */
  public RunAsPrincipalPermission(final String name) {
     super(name);
  }

  /**
   * Construct a new instance.
   *
   * @param name the principal name, or {@code *} for global run-as permissions
   * @param ignored the permission actions (ignored)
   */
  public RunAsPrincipalPermission(final String name, @SuppressWarnings("unused") final String ignored) {
     this(name);
  }

  public RunAsPrincipalPermission withName(final String name) {
     return new RunAsPrincipalPermission(name);
  }
}
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*/
```

```
package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractBooleanPermission;

/**
* Establish whether the current identity has permission to complete an authentication ("log in").
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class LoginPermission extends AbstractBooleanPermission<LoginPermission> {

  private static final long serialVersionUID = - 5776174571770792690L;

  /**
   * Construct a new instance.
   */
  public LoginPermission() {
  }

  /**
   * Construct a new instance.
   *
   * @param name ignored
   */
  public LoginPermission(@SuppressWarnings("unused") final String name) {
  }

  /**
   * Construct a new instance.
   *
   * @param name ignored
   * @param actions ignored
   */
  public LoginPermission(@SuppressWarnings("unused") final String name, @SuppressWarnings("unused") final
String actions) {
  }

  private static final LoginPermission INSTANCE = new LoginPermission();

  /**
   * Get the instance of this class.
   *
   * @return the instance of this class
   */
  public static LoginPermission getInstance() {
     return INSTANCE;
  }
```

```
}
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*/

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
* The permission to change a role mapper category on a security identity.
*/
public final class ChangeRoleMapperPermission extends
AbstractNameOnlyPermission<ChangeRoleMapperPermission> {

  private static final long serialVersionUID = - 6742662884954321082L;

  /**
   * Construct a new instance.
   *
   * @param name the category name, or {@code *} for all categories
   */
  public ChangeRoleMapperPermission(final String name) {
     super(name);
  }

  /**
   * Construct a new instance.
   *
   * @param name the category name, or {@code *} for all categories
   * @param ignored the permission actions (ignored)
   */
  public ChangeRoleMapperPermission(final String name, @SuppressWarnings("unused") final String ignored) {
     this(name);
```

```
    }

    public ChangeRoleMapperPermission withName(final String name) {
        return new ChangeRoleMapperPermission(name);
    }
}
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*/

/**
* Permissions which pertain to authentication and authorization.
*/
package org.wildfly.security.auth.permission;
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*/

package org.wildfly.security.permission;
```

```
import java.io.IOException;
import java.io.ObjectInputStream;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.security._private.ElytronMessages;

final class UnionPermissionCollection extends PermissionCollection implements PermissionVerifier {
  private static final long serialVersionUID = 6731525842957764833L;

  private final PermissionCollection pc1;
  private final PermissionCollection pc2;

  UnionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
     this.pc1 = pc1;
     this.pc2 = pc2;
     setReadOnly();
  }

  public void add(final Permission permission) {
     throw ElytronMessages.log.readOnlyPermissionCollection();
  }

  public boolean implies(final Permission permission) {
     return pc1.implies(permission) || pc2.implies(permission);
  }

  public Enumeration<Permission> elements() {
     final Enumeration<Permission> e1 = pc1.elements();
     final Enumeration<Permission> e2 = pc2.elements();
     return new Enumeration<Permission>() {
        public boolean hasMoreElements() {
           return e1.hasMoreElements() || e2.hasMoreElements();
        }

        public Permission nextElement() {
           return e1.hasMoreElements() ? e1.nextElement() : e2.nextElement();
        }
     };
  }

  private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
     ois.defaultReadObject();
     if (pc1 == null) {
        throw ElytronMessages.log.invalidObjectNull("pc1");
     }
     if (pc2 == null) {
```

```
            throw ElytronMessages.log.invalidObjectNull("pc2");
        }
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicLong;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class LongNameSetPermissionCollection extends NameSetPermissionCollection {

    private final AtomicLong bitSet = new AtomicLong();

    LongNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission, nameEnumeration);
    }

    private Permission permissionFor(int id) {
        return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        long setBits = getBitsForName(permission);
        final AtomicLong bitSet = this.bitSet;
```

```
    long oldVal;
    do {
        oldVal = bitSet.get();
        if ((oldVal & setBits) == setBits) {
            return;
        }
    } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
}

public boolean implies(final Permission permission) {
    if (permission.getClass() != getSourcePermission().getClass()) {
        return false;
    }
    long testBits = getBitsForName(permission);
    return (bitSet.get() & testBits) == testBits;
}

public int size() {
    final int size = Long.bitCount(bitSet.get());
    return size == getNameEnumeration().size() ? 1 : size;
}

public EnumerationIterator<Permission> iterator() {
    return new Iter(bitSet.get());
}

public EnumerationIterator<Permission> elements() {
    return iterator();
}

private long getBitsForName(final Permission permission) {
    final long bits;
    final String name = permission.getName();
    final StringEnumeration nameEnumeration = getNameEnumeration();
    if ("*".equals(name)) {
        // add all names
        bits = (1L << nameEnumeration.size()) - 1;
    } else {
        bits = 1L << nameEnumeration.indexOf(name);
    }
    return bits;
}

private class Iter implements EnumerationIterator<Permission> {
    private long bits;

    Iter(final long bits) {
        this.bits = bits;
```

```
        }

        public boolean hasMoreElements() {
            return bits != 0;
        }

        public Permission nextElement() {
            final long bits = this.bits;
            if (bits == 0) throw new NoSuchElementException();
            if (Long.bitCount(bits) == getNameEnumeration().size()) {
                this.bits = 0;
                return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
            }
            long bit = Long.lowestOneBit(bits);
            this.bits = bits & ~bit;
            return permissionFor(Long.numberOfTrailingZeros(bit));
        }

        public boolean hasNext() {
            return hasMoreElements();
        }

        public Permission next() {
            return nextElement();
        }
    }

}
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*/

package org.wildfly.security.permission;
```

```
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Policy;
import java.security.ProtectionDomain;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
* An interface for objects that can verify permissions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
@FunctionalInterface
public interface PermissionVerifier {
  /**
   * Determine if the permission is verified by this object.
   *
   * @param permission the permission to verify (must not be {@code null})
   * @return {@code true} if the permission is implied by this verifier, {@code false} otherwise
   */
  boolean implies(Permission permission);

  /**
   * Return a new verifier which implies permissions which are implied both by this verifier and by the given
verifier.
   *
   * @param other the other verifier (must not be {@code null})
   * @return the new permission verifier (not {@code null})
   */
  default PermissionVerifier and(PermissionVerifier other) {
      Assert.checkNotNullParam("other", other);
      return permission -> implies(permission) && other.implies(permission);
  }

  /**
   * Return a new verifier which implies permissions which are implied either by this verifier or by the given
verifier.
   *
   * @param other the other verifier (must not be {@code null})
   * @return the new permission verifier (not {@code null})
   */
  default PermissionVerifier or(PermissionVerifier other) {
      Assert.checkNotNullParam("other", other);
      return permission -> implies(permission) || other.implies(permission);
  }

  /**
```

```
    * Return a new verifier which implies permissions which are implied by only one of this verifier or the given verifier.
    *
    * @param other the other verifier (must not be {@code null})
    * @return the new permission verifier (not {@code null})
    */
   default PermissionVerifier xor(PermissionVerifier other) {
       Assert.checkNotNullParam("other", other);
       return permission -> implies(permission) ^ other.implies(permission);
   }

   /**
    * Return a new verifier which implies the opposite of this verifier.
    *
    * @return the new permission verifier (not {@code null})
    */
   default PermissionVerifier not() {
       return permission -> ! implies(permission);
   }

   /**
    * Return a new verifier which implies permissions which are implied by this verifier but not the given verifier.
    *
    * @param other the other verifier (must not be {@code null})
    * @return the new permission verifier (not {@code null})
    */
   default PermissionVerifier unless(PermissionVerifier other) {
       Assert.checkNotNullParam("other", other);
       return permission -> implies(permission) && ! other.implies(permission);
   }

   /**
    * Check a permission, throwing an exception if the permission is not implied.
    *
    * @param permission the permission to check (must not be {@code null})
    * @throws SecurityException if the permission is not implied
    */
   default void checkPermission(Permission permission) throws SecurityException {
       Assert.checkNotNullParam("permission", permission);
       if (! implies(permission)) {
           throw ElytronMessages.log.permissionCheckFailed(permission, this);
       }
   }

   /**
    * Get a permission verifier for a single permission.
    *
    * @param permission the permission (must not be {@code null})
```

```
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(Permission permission) {
        Assert.checkNotNullParam("permission", permission);
        return permission instanceof PermissionVerifier ? (PermissionVerifier) permission : permission::implies;
    }

    /**
     * Get a permission verifier for a permission collection.
     *
     * @param permissionCollection the permission collection (must not be {@code null})
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(PermissionCollection permissionCollection) {
        Assert.checkNotNullParam("permissionCollection", permissionCollection);
        return permissionCollection instanceof PermissionVerifier ? (PermissionVerifier) permissionCollection :
permissionCollection::implies;
    }

    /**
     * Get a permission verifier for a protection domain.
     *
     * @param protectionDomain the protection domain (must not be {@code null})
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(ProtectionDomain protectionDomain) {
        Assert.checkNotNullParam("protectionDomain", protectionDomain);
        return protectionDomain instanceof PermissionVerifier ? (PermissionVerifier) protectionDomain :
protectionDomain::implies;
    }

    /**
     * Get a permission verifier for a policy's view of a protection domain.
     *
     * @param policy the policy (must not be {@code null})
     * @param protectionDomain the protection domain (must not be {@code null})
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(Policy policy, ProtectionDomain protectionDomain) {
        Assert.checkNotNullParam("policy", policy);
        Assert.checkNotNullParam("protectionDomain", protectionDomain);
        return permission -> policy.implies(protectionDomain, permission);
    }

    /**
     * Convert this verifier a permission collection which implies everything this verifier implies.  If this instance
     * is already a {@code PermissionCollection} instance, then this instance may be cast and returned.  Otherwise,
     * this method may return a new, read-only collection, which cannot be iterated.
```

```
     *
     * @return the permission collection (not {@code null})
     */
    default PermissionCollection toPermissionCollection() {
        if (this instanceof PermissionCollection) {
            return (PermissionCollection) this;
        } else {
            return new PermissionVerifierPermissionCollection(this);
        }
    }

    /**
     * A verifier which implies no permissions.
     */
    PermissionVerifier NONE = permission -> false;

    /**
     * A verifier which implies all permissions.
     */
    PermissionVerifier ALL = permission -> true;
}
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;

/**
* A permission collection for permissions with a finite set of names, which is based on a simple bit set.
* In this type of collection, each bit represents a unique permission of a given name.  This type is not suitable for
* permissions with actions.
```

```
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class NameSetPermissionCollection extends AbstractPermissionCollection {
  private static final long serialVersionUID = - 9191397492173027470L;
  private final StringEnumeration nameEnumeration;

  /**
   * Construct a new instance.  The name enumeration is pulled from the source permission object.
   *
   * @param sourcePermission the source permission object (must not be {@code null})
   * @return the permission collection
   */
  public static AbstractPermissionCollection newInstance(final AbstractNameSetOnlyPermission<?>
sourcePermission) {
      return newInstance(sourcePermission, sourcePermission.getNameEnumeration());
  }

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission object (must not be {@code null})
   * @param nameEnumeration the name enumeration for this permission type (must not be {@code null})
   * @return the permission collection
   */
  public static AbstractPermissionCollection newInstance(final AbstractPermission<?> sourcePermission, final
StringEnumeration nameEnumeration) {
      Assert.checkNotNullParam("sourcePermission", sourcePermission);
      Assert.checkNotNullParam("nameEnumeration", nameEnumeration);
      final int size = nameEnumeration.size();
      if (size <= 32) {
          return new IntNameSetPermissionCollection(sourcePermission, nameEnumeration);
      } else if (size <= 64) {
          return new LongNameSetPermissionCollection(sourcePermission, nameEnumeration);
      } else {
          // TODO: add GiantNameSetPermissionCollection which uses AtomicIntegerArray
          throw Assert.unsupported();
      }
  }

  NameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
      super(sourcePermission);
      this.nameEnumeration = nameEnumeration;
  }

  StringEnumeration getNameEnumeration() {
      return nameEnumeration;
```

```
  }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
* The permission collection type for {@link NoPermission}.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
final class NoPermissionCollection extends AbstractPermissionCollection {
  private static final long serialVersionUID = - 8826282614161412469L;

  private static NoPermissionCollection INSTANCE = new NoPermissionCollection();

  NoPermissionCollection() {
     super(NoPermission.getInstance());
  }

  static NoPermissionCollection getInstance() {
     return INSTANCE;
  }

  protected void doAdd(final AbstractPermission<?> permission) {
     // no action
  }
```

```
    public boolean implies(final Permission permission) {
        return false;
    }

    public Enumeration<Permission> elements() {
        return Collections.emptyEnumeration();
    }

    public Iterator<Permission> iterator() {
        return Collections.emptyIterator();
    }

    public int size() {
        return 0;
    }

    Object readResolve() {
        return INSTANCE;
    }

    public boolean equals(final Object obj) {
        return obj instanceof NoPermissionCollection;
    }

    public int hashCode() {
        return getClass().hashCode();
    }
}
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*/

package org.wildfly.security.permission;
```

```
import org.wildfly.security.util.StringEnumeration;

/**
* An abstract base class for permissions which use a bit set to represent actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractActionSetPermission<This extends AbstractActionSetPermission<This>> extends
AbstractActionPermission<This> {
  private static final long serialVersionUID = 897239118282921196L;

  private final StringEnumeration actionEnumeration;
  private final int actionBits;
  private String actions;

  /**
   * Construct a new instance.  The given bits are masked by {@link #actionsMask()} before being stored in the
object
   * instance.
   *
   * @param name the permission name
   * @param actionBits the permission action bits
   * @param actionEnumeration the permission actions enumeration
   */
  protected AbstractActionSetPermission(final String name, final int actionBits, final StringEnumeration
actionEnumeration) {
      super(name);
      this.actionEnumeration = actionEnumeration;
      this.actionBits = actionBits & actionsMask();
      if (actionBits == actionsMask()) actions = "*";
  }

  /**
   * Construct a new instance.
   *
   * @param name the permission name
   * @param actions the permission actions string
   * @param actionEnumeration the permission actions enumeration
   */
  protected AbstractActionSetPermission(final String name, final String actions, final StringEnumeration
actionEnumeration) {
      super(name);
      this.actionEnumeration = actionEnumeration;
      final int actionBits = parseActions(actions);
      this.actionBits = actionBits & actionsMask();
      if (actionBits == actionsMask()) this.actions = "*";
  }
```

```
/**
 * Get the action bits of this permission.
 *
 * @return the action bits
 */
public final int getActionBits() {
   return actionBits;
}

public final boolean actionsEquals(final This permission) {
   return permission != null && actionBits == permission.getActionBits();
}

public final boolean impliesActions(final This permission) {
   return permission != null && isSet(actionBits, permission.getActionBits());
}

public final boolean impliesActions(final String actions) {
   return impliesActionBits(parseActions(actions));
}

/**
 * Determine whether this permission's actions value implies the given action bits.
 *
 * @param actionBits the actions bits to test
 * @return {@code true} if this permission implies the given action bits; {@code false} otherwise
 */
public final boolean impliesActionBits(final int actionBits) {
   return isSet(this.actionBits, actionBits & actionsMask());
}

private int actionsMask() {
   return (1 << actionEnumeration.size()) - 1;
}

private int getActionBit(final String actionName) throws IllegalArgumentException {
   return 1 << actionEnumeration.indexOf(actionName);
}

private String getActionName(final int bit) throws IllegalArgumentException {
   return actionEnumeration.nameOf(Integer.numberOfTrailingZeros(bit));
}

protected final int actionsHashCode() {
   return actionBits;
}
```

```
    /**
     * Get the actions string.  The string is computed the first time this method is called, and cached thereafter.
     *
     * @return the actions string (not {@code null})
     */
    public final String getActions() {
        final String actions = this.actions;
        if (actions != null) {
            return actions;
        }
        return this.actions = PermissionUtil.toActionsString(actionBits, this::getActionName);
    }

    /**
     * Parse the actions string into a bit set.
     *
     * @param actionsString the actions string
     * @return the bit set
     * @throws IllegalArgumentException if the actions string contained an invalid name or invalid syntax
     */
    public final int parseActions(final String actionsString) throws IllegalArgumentException {
        return PermissionUtil.parseActions(actionsString, this::getActionBit);
    }

    public final This withActions(final String actionsString) {
        return withActionBits(parseActions(actionsString));
    }

    public final This withActionsFrom(final This permission) {
        return withActionBits(permission.getActionBits());
    }

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
     * from this permission and the action bits from the given value.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
     * @return the permission (not {@code null})
     */
    public final This withActionBits(int actionBits) {
        return withNewActionBits(this.actionBits | actionBits & actionsMask());
    }

    public final This withoutActions(String actionsString) {
        return withoutActionBits(parseActions(actionsString));
    }
```

```
    public final This withoutActionsFrom(final This permission) {
        return withoutActionBits(permission.getActionBits());
    }

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the action bits from the given value.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
     * @return the permission (not {@code null})
     */
    public final This withoutActionBits(int actionBits) {
        return withNewActionBits(this.actionBits & ~actionBits);
    }

    public final This withNewActions(String actionsString) {
        return withNewActionBits(parseActions(actionsString));
    }

    public final This withNewActionsFrom(final This permission) {
        return withNewActionBits(permission.getActionBits());
    }

    /**
     * Get a permission which is identical to this one, but with new action bits as given by {@code actionBits}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
     * @return the permission (not {@code null})
     */
    @SuppressWarnings("unchecked")
    public final This withNewActionBits(int actionBits) {
        final int masked = actionBits & actionsMask();
        if (masked == this.actionBits) {
            return (This) this;
        } else {
            return constructWithActionBits(masked);
        }
    }

    /**
     * Construct or return a permission of this type with the same name as this one but with the given action bits.
     *
     * @param actionBits the action bits
     * @return the permission
```

```
     */
    protected abstract This constructWithActionBits(int actionBits);

    // private

    private static boolean isSet(final int bits, final int test) {
        return (bits & test) == test;
    }
}
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*/

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class PermissionVerifierPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 5119756048547471645L;

    private final PermissionVerifier verifier;

    PermissionVerifierPermissionCollection(final PermissionVerifier verifier) {
        this.verifier = verifier;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
```

```
    }

    public boolean implies(final Permission permission) {
        return verifier.implies(permission);
    }

    public Enumeration<Permission> elements() {
        throw Assert.unsupported();
    }
}
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* limitations under the License.
*/

package org.wildfly.security.permission;

import org.wildfly.security.util.StringEnumeration;

/**
* An actionless permission with a finite, fixed set of possible names.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractNameSetOnlyPermission<This extends AbstractNameSetOnlyPermission<This>>
extends AbstractNameOnlyPermission<This> {

    private final StringEnumeration nameEnumeration;

    /**
     * Construct a new instance.
     *
     * @param name the name of this permission
     * @param nameEnumeration the set of valid names for this permission type
     */
```

```
    protected AbstractNameSetOnlyPermission(final String name, final StringEnumeration nameEnumeration) {
        super("*".equals(name) ? "*" : nameEnumeration.canonicalName(name));
        this.nameEnumeration = nameEnumeration;
    }

    StringEnumeration getNameEnumeration() {
        return nameEnumeration;
    }

    public AbstractPermissionCollection newPermissionCollection() {
        return NameSetPermissionCollection.newInstance(this, nameEnumeration);
    }

    public final boolean nameEquals(final String name) {
        return super.nameEquals(name);
    }

    public final boolean impliesName(final String name) {
        return super.impliesName(name);
    }

    protected final int nameHashCode() {
        return nameEnumeration.indexOf(getName());
    }
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

package org.wildfly.security.permission;

/**
* A permission which implies nothing, not even itself.
*
```

```
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class NoPermission extends AbstractPermission<NoPermission> {
    private static final long serialVersionUID = 2339781690941885693L;

    private static final NoPermission INSTANCE = new NoPermission();

    /**
     * Construct a new instance.
     */
    public NoPermission() {
        super("<no permissions>");
    }

    /**
     * Construct a new instance.  The name parameter is ignored.
     *
     * @param ignored ignored
     */
    public NoPermission(final String ignored) {
        this();
    }

    /**
     * Construct a new instance.  The name and actions parameters are ignored.
     *
     * @param ignored1 ignored
     * @param ignored2 ignored
     */
    public NoPermission(final String ignored1, final String ignored2) {
        this();
    }

    /**
     * Get the no-permission instance.
     *
     * @return the no-permission instance (not {@code null})
     */
    public static NoPermission getInstance() {
        return INSTANCE;
    }

    /**
     * Always returns {@code false}.
     *
     * @param permission ignored
     * @return {@code false}
     */
```

```
    public boolean implies(final NoPermission permission) {
        return false;
    }

    /**
     * Always returns {@code true} if the argument is not {@code null}.
     *
     * @param other the permission to compare to
     * @return {@code true} if {@code other} is not {@code null}; {@code false} otherwise
     */
    public boolean equals(final NoPermission other) {
        return other != null;
    }

    /**
     * Get the constant hash code.
     *
     * @return the constant hash code
     */
    public int hashCode() {
        return getClass().hashCode();
    }

    public AbstractPermissionCollection newPermissionCollection() {
        return NoPermissionCollection.getInstance();
    }
}
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* limitations under the License.
*/

package org.wildfly.security.permission;

import java.io.Serializable;
```

```
import java.security.Permission;

final class SerializedPermission implements Serializable {
  private static final long serialVersionUID = 897239118282921196L;

  private final Class<? extends Permission> c;
  private final String n;
  private final String a;

  SerializedPermission(final Class<? extends Permission> permissionClass, final String name, final String action) {
     this.c = permissionClass;
     this.n = name;
     this.a = action;
  }

  Object readResolve() {
     return PermissionUtil.createPermission(c, n, a);
  }
}
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*/

package org.wildfly.security.permission;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.AllPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Permissions;
import java.util.Arrays;
import java.util.Collection;
```

```
import java.util.Enumeration;
import java.util.Iterator;
import java.util.function.BiConsumer;
import java.util.function.BiPredicate;
import java.util.function.Consumer;
import java.util.function.IntFunction;
import java.util.function.LongFunction;
import java.util.function.Predicate;
import java.util.function.ToIntFunction;
import java.util.function.ToLongFunction;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
* General permission utility methods and constants.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class PermissionUtil {

  private PermissionUtil() {
  }

  /**
   * A shared {@link AllPermission} instance.
   */
  public static final Permission ALL_PERMISSION = new AllPermission();

  /**
   * A read-only permission collection which implies {@link AllPermission}.
   */
  public static final PermissionCollection ALL_PERMISSIONS;

  /**
   * A permission collection which is empty.
   */
  public static final PermissionCollection EMPTY_PERMISSION_COLLECTION;

  /**
   * An array with no permissions in it.
   */
  public static final Permission[] NO_PERMISSIONS = new Permission[0];

  static {
     Permissions permissions = new Permissions();
     permissions.add(ALL_PERMISSION);
     permissions.setReadOnly();
```

```
        ALL_PERMISSIONS = permissions;
        permissions = new Permissions();
        permissions.setReadOnly();
        EMPTY_PERMISSION_COLLECTION = permissions;
    }

    /**
     * Parse an actions string, using the given function to map action strings to bits.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @param function the mapping function (must not be {@code null})
     * @return the union of all the action bits
     * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
     */
    public static int parseActions(String actionsString, ToIntFunction<String> function) throws
IllegalArgumentException {
        Assert.checkNotNullParam("actionsString", actionsString);
        Assert.checkNotNullParam("function", function);
        int actions = 0;
        int pos = 0;
        int idx = actionsString.indexOf(',');
        for (;;) {
            String str;
            if (idx == -1) {
                str = actionsString.substring(pos, actionsString.length()).trim();
                if (! str.isEmpty()) actions |= function.applyAsInt(str);
                return actions;
            } else {
                str = actionsString.substring(pos, idx).trim();
                pos = idx + 1;
                if (! str.isEmpty()) actions |= function.applyAsInt(str);
                idx = actionsString.indexOf(',', pos);
            }
        }
    }

    /**
     * Parse an actions string, using the given function to map action strings to bits.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @param function the mapping function (must not be {@code null})
     * @return the union of all the action bits
     * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
     */
    public static long parseActions(String actionsString, ToLongFunction<String> function) throws
IllegalArgumentException {
```

```
    Assert.checkNotNullParam("actionsString", actionsString);
    Assert.checkNotNullParam("function", function);
    long actions = 0;
    int pos = 0;
    int idx = actionsString.indexOf(',');
    for (;;) {
        String str;
        if (idx == -1) {
            str = actionsString.substring(pos, actionsString.length()).trim();
            if (! str.isEmpty()) actions |= function.applyAsLong(str);
            return actions;
        } else {
            str = actionsString.substring(pos, idx).trim();
            pos = idx + 1;
            if (! str.isEmpty()) actions |= function.applyAsLong(str);
            idx = actionsString.indexOf(',', pos);
        }
    }
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
 * the empty string {@code ""} is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be {@code null})
 * @return the actions string (not {@code null})
 */
public static String toActionsString(int actionBits, IntFunction<String> mappingFunction) {
    Assert.checkNotNullParam("mappingFunction", mappingFunction);
    final StringBuilder sb = new StringBuilder();
    if (actionBits == 0) return "";
    int lb = Integer.highestOneBit(actionBits);
    sb.append(mappingFunction.apply(lb));
    actionBits &= ~lb;
    while (actionBits != 0) {
        lb = Integer.highestOneBit(actionBits);
        sb.append(',').append(mappingFunction.apply(lb));
        actionBits &= ~lb;
    }
    return sb.toString();
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
 * the empty string {@code ""} is returned.
 *
 * @param actionBits the action bit set
```

```
     * @param mappingFunction the mapping function (must not be {@code null})
     * @return the actions string (not {@code null})
     */
    public static String toActionsString(long actionBits, LongFunction<String> mappingFunction) {
        Assert.checkNotNullParam("mappingFunction", mappingFunction);
        final StringBuilder sb = new StringBuilder();
        if (actionBits == 0) return "";
        long lb = Long.highestOneBit(actionBits);
        sb.append(mappingFunction.apply(lb));
        actionBits &= ~lb;
        while (actionBits != 0) {
            lb = Long.highestOneBit(actionBits);
            sb.append(',').append(mappingFunction.apply(lb));
            actionBits &= ~lb;
        }
        return sb.toString();
    }

    /**
     * Create an iterable view over a permission collection.
     *
     * @param pc the permission collection (must not be {@code null})
     * @return the iterable view (not {@code null})
     */
    public static Iterable<Permission> iterable(PermissionCollection pc) {
        return () -> {
            final Enumeration<Permission> elements = pc.elements();
            return new Iterator<Permission>() {
                public boolean hasNext() {
                    return elements.hasMoreElements();
                }

                public Permission next() {
                    return elements.nextElement();
                }
            };
        };
    }

    /**
     * Perform an action for each permission in the given collection.
     *
     * @param collection the collection (must not be {@code null})
     * @param consumer the consumer to which each permission should be passed (must not be {@code null})
     */
    public static void forEachIn(PermissionCollection collection, Consumer<Permission> consumer) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("consumer", consumer);
```

```
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            consumer.accept(elements.nextElement());
        }
    }

    /**
     * Perform an action for each permission in the given collection.
     *
     * @param collection the collection (must not be {@code null})
     * @param parameter the parameter to pass to the consumer
     * @param consumer the consumer to which each permission should be passed (must not be {@code null})
     * @param <P> the type of the parameter
     * @return the {@code parameter} that was passed in
     */
    public static <P> P forEachIn(PermissionCollection collection, BiConsumer<P, Permission> consumer, P
parameter) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("consumer", consumer);
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            consumer.accept(parameter, elements.nextElement());
        }
        return parameter;
    }

    /**
     * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
     * {@code false} is returned; otherwise, {@code true} is returned.
     *
     * @param collection the collection (must not be {@code null})
     * @param predicate the predicate to apply to each element (must not be {@code null})
     * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
     */
    public static boolean forEachIn(PermissionCollection collection, Predicate<Permission> predicate) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("predicate", predicate);
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            if (! predicate.test(elements.nextElement())) {
                return false;
            }
        }
        return true;
    }

    /**
     * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
```

```
     * {@code false} is returned; otherwise, {@code true} is returned.
     *
     * @param collection the collection (must not be {@code null})
     * @param parameter the parameter to pass to the consumer
     * @param predicate the predicate to apply to each element (must not be {@code null})
     * @param <P> the type of the parameter
     * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
     */
    public static <P> boolean forEachIn(PermissionCollection collection, BiPredicate<P, Permission> predicate, P
parameter) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("predicate", predicate);
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            if (! predicate.test(parameter, elements.nextElement())) {
                return false;
            }
        }
        return true;
    }

    /**
     * Create a permission collection that is the union of two permission collections.  The permission
     * collections must be read-only.
     *
     * @param pc1 the first permission collection (must not be {@code null})
     * @param pc2 the second permission collection (must not be {@code null})
     * @return a new permission collection that is the union of the two collections (not {@code null})
     */
    public static PermissionCollection union(PermissionCollection pc1, PermissionCollection pc2) {
        Assert.checkNotNullParam("pc1", pc1);
        Assert.checkNotNullParam("pc2", pc2);
        if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
            throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
        }
        if (pc1.implies(ALL_PERMISSION) || pc2.implies(ALL_PERMISSION)) {
            return ALL_PERMISSIONS;
        } else {
            return new UnionPermissionCollection(pc1, pc2);
        }
    }

    /**
     * Create a permission collection that is the intersection of two permission collections.  The permission
     * collections must be read-only.
     *
     * @param pc1 the first permission collection (must not be {@code null})
     * @param pc2 the second permission collection (must not be {@code null})
```

```
     * @return a new permission collection that is the intersection of the two collections (not {@code null})
     */
    public static PermissionCollection intersection(PermissionCollection pc1, PermissionCollection pc2) {
        Assert.checkNotNullParam("pc1", pc1);
        Assert.checkNotNullParam("pc2", pc2);
        if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
            throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
        }
        if (pc1.implies(ALL_PERMISSION)) {
            return pc2;
        } else if (pc2.implies(ALL_PERMISSION)) {
            return pc1;
        } else {
            return new IntersectionPermissionCollection(pc1, pc2);
        }
    }

    /**
     * Determine if one collection implies all the permissions in the other collection.
     *
     * @param collection the collection to check against (must not be {@code null})
     * @param testCollection the collection whose permissions are to be tested (must not be {@code null})
     * @return {@code true} if {@code collection} implies all of the permissions in {@code testCollection}, {@code
false} otherwise
     */
    public static boolean impliesAll(PermissionCollection collection, PermissionCollection testCollection) {
        return forEachIn(collection, PermissionCollection::implies, testCollection);
    }

    /**
     * Determine if two permission collections are equal, that is, each collection implies all of the permissions in the
     * other collection.
     *
     * @param pc1 the first collection (must not be {@code null})
     * @param pc2 the second collection (must not be {@code null})
     * @return {@code true} if the collections imply one another, {@code false} otherwise
     */
    public static boolean equals(PermissionCollection pc1, PermissionCollection pc2) {
        return impliesAll(pc1, pc2) && impliesAll(pc2, pc1);
    }

    /**
     * Add all of the permissions from the source collection to the target collection.
     *
     * @param target the target collection (must not be {@code null})
     * @param source the source collection (must not be {@code null})
     * @return the target collection (not {@code null})
     */
```

```
    public static PermissionCollection addAll(PermissionCollection target, PermissionCollection source) {
        return forEachIn(source, PermissionCollection::add, target);
    }

    /**
     * Add all of the permissions from the source collection to the target collection.
     *
     * @param target the target collection (must not be {@code null})
     * @param source the source collection (must not be {@code null})
     * @return the target collection (not {@code null})
     */
    public static PermissionCollection addAll(PermissionCollection target, Collection<Permission> source) {
        source.forEach(target::add);
        return target;
    }

    /**
     * Add a permission to a collection, returning the target collection.  If the permission is {@code null}, it is
     * not added.
     *
     * @param target the target collection (must not be {@code null})
     * @param source the permission to add
     * @return the target collection (not {@code null})
     */
    public static PermissionCollection add(PermissionCollection target, Permission source) {
        Assert.checkNotNullParam("target", target);
        if (source != null) target.add(source);
        return target;
    }

    /**
     * Instantiate a permission with the given class name, permission name, and actions.
     *
     * @param classLoader the class loader to search in ({@code null} indicates the system class loader)
     * @param className the name of the permission class to instantiate (must not be {@code null})
     * @param name the permission name (may be {@code null} if allowed by the permission class)
     * @param actions the permission actions (may be {@code null} if allowed by the permission class)
     * @return the permission object (not {@code null})
     * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
     * @throws ClassCastException if the class name does not refer to a subclass of {@link Permission}
     */
    public static Permission createPermission(final ClassLoader classLoader, final String className, final String
name, final String actions) {
        Assert.checkNotNullParam("className", className);
        final Class<? extends Permission> permissionClass;
        try {
            permissionClass = Class.forName(className, true, classLoader).asSubclass(Permission.class);
        } catch (ClassNotFoundException e) {
```

```
            throw ElytronMessages.log.permissionClassMissing(className, e);
        }
        return createPermission(permissionClass, name, actions);
    }

    /**
     * Instantiate a permission with the given class, permission name, and actions.
     *
     * @param permissionClass the permission class to instantiate (must not be {@code null})
     * @param name the permission name (may be {@code null} if allowed by the permission class)
     * @param actions the permission actions (may be {@code null} if allowed by the permission class)
     * @return the permission object (not {@code null})
     * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
     */
    public static Permission createPermission(final Class<? extends Permission> permissionClass, final String name,
final String actions) {
        Assert.checkNotNullParam("permissionClass", permissionClass);
        Constructor<? extends Permission> noArgs = null;
        Constructor<? extends Permission> oneArg = null;
        Constructor<? extends Permission> twoArg = null;
        for (Constructor<?> raw : permissionClass.getConstructors()) {
            @SuppressWarnings("unchecked")
            Constructor<? extends Permission> ctor = (Constructor<? extends Permission>) raw;
            final Class<?>[] parameterTypes = ctor.getParameterTypes();
            if (parameterTypes.length == 2 && parameterTypes[0] == String.class && parameterTypes[1] ==
String.class) {
                twoArg = ctor;
            } else if (parameterTypes.length == 1 && parameterTypes[0] == String.class) {
                oneArg = ctor;
            } else if (parameterTypes.length == 0) {
                noArgs = ctor;
            }
        }
        try {
            if (twoArg != null) {
                return twoArg.newInstance(name, actions);
            } else if (oneArg != null) {
                return oneArg.newInstance(name);
            } else if (noArgs != null) {
                return noArgs.newInstance();
            } else {
                throw ElytronMessages.log.noPermissionConstructor(permissionClass.getName());
            }
        } catch (IllegalAccessException e) {
            throw new IllegalAccessError(e.getMessage());
        } catch (InstantiationException e) {
            throw ElytronMessages.log.permissionInstantiation(permissionClass.getName(), e);
        } catch (InvocationTargetException e) {
```

```
            try {
                throw e.getCause();
            } catch (Error | RuntimeException cause) {
                throw cause;
            } catch (Throwable cause) {
                throw new UndeclaredThrowableException(cause);
            }
        }
    }

    /**
     * Get a read-only collection of the given permissions.
     *
     * @param permissions the permissions to assign
     * @return the read-only collection
     */
    public static PermissionCollection readOnlyCollectionOf(Permission... permissions) {
        final int length = permissions.length;
        if (length == 0) {
            return EMPTY_PERMISSION_COLLECTION;
        } else {
            Permissions collection = new Permissions();
            addAll(collection, Arrays.asList(permissions));
            collection.setReadOnly();
            return collection;
        }
    }
}
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*/

package org.wildfly.security.permission;
```

```
import org.wildfly.common.Assert;

import java.security.Permission;

/**
* An abstract base class for named permissions with useful API and implementation methods.
* <p>
* Subclasses of this class are always serialized as a special serialized permission object, which captures the type class,
* the permission name (if any), and the permission action (if any) as a string.  Therefore, none of the fields of any
* subclass of this class are serialized unless they are included in the name or actions properties.
* <p>
* Concrete subclasses are expected to be immutable and final.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractNamedPermission<This extends AbstractNamedPermission<This>> extends AbstractPermission<This> {
  private static final long serialVersionUID = 5774685776540853292L;

  /**
   * Construct a new instance.
   *
   * @param name the permission name (must not be {@code null})
   */
  protected AbstractNamedPermission(final String name) {
     super(Assert.checkNotNullParam("name", name));
  }

  /**
   * Create a new permission which is identical to this one, except with a new {@code name}.
   *
   * @param name the name to use (must not be {@code null})
   * @return the new permission
   */
  public abstract This withName(String name);

  /**
   * Determine whether this permission has a name equal to the given name.
   *
   * @param name the name to check
   * @return {@code true} if this permission's name is equal to the given name, {@code false} otherwise
   */
  public boolean nameEquals(final String name) {
     return getName().equals(name);
  }

  /**
```

```
    * Determine whether this permission has a name equal to the name of the given permission.  If the given
permission
    * is of a different type than this permission, {@code false} is returned.
    *
    * @param permission the permission whose name is to be checked
    * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
    */
   @SuppressWarnings("unchecked")
   public final boolean nameEquals(final Permission permission) {
      return permission != null && permission.getClass() == getClass() && nameEquals((This) permission);
   }

   /**
    * Determine whether this permission has a name equal to the name of the given permission.
    *
    * @param permission the permission whose name is to be checked
    * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
    */
   public final boolean nameEquals(final This permission) {
      return permission != null && nameEquals(permission.getName());
   }

   /**
    * Get the hash code of the name.  The default implementation returns {@code getName().hashCode()}.
    *
    * @return the hash code of the name
    */
   protected int nameHashCode() {
      return getName().hashCode();
   }

   /**
    * Determine whether this permission implies the given name.
    *
    * @param name the name to check
    * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
    */
   public boolean impliesName(final String name) {
      return nameEquals("*") || nameEquals(name);
   }

   /**
    * Determine whether this permission implies the name of the given permission.  If
    * the permission is not of the same type as this permission, {@code false} is returned.
    *
    * @param permission the permission whose name is to be checked
```

```
     * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean impliesName(final Permission permission) {
        return permission != null && permission.getClass() == getClass() && impliesName((This) permission);
    }

    /**
     * Determine whether this permission implies the name of the given permission.
     *
     * @param permission the permission whose name is to be checked
     * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
     */
    public boolean impliesName(final This permission) {
        return permission != null && impliesName(permission.getName());
    }

    public boolean implies(final This permission) {
        return permission != null && impliesName(permission);
    }

    public boolean equals(final This other) {
        return other != null && nameEquals(other);
    }

    public int hashCode() {
        return getClass().hashCode() * 71 + nameHashCode();
    }
}
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*/

package org.wildfly.security.permission;
```

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
* Base class for useful permission collections.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractPermissionCollection extends PermissionCollection implements Iterable<Permission>,
PermissionVerifier {
  private static final long serialVersionUID = - 7532778883140764647L;

  private final AbstractPermission<?> sourcePermission;

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission for this collection (must not be {@code null})
   */
  protected AbstractPermissionCollection(final AbstractPermission<?> sourcePermission) {
     Assert.checkNotNullParam("sourcePermission", sourcePermission);
     this.sourcePermission = sourcePermission;
  }

  /**
   * Get the size of this permission collection.
   *
   * @return the size of this permission collection
   */
  public abstract int size();

  /**
   * Iterate over this permission collection.
   *
   * @return the iterator (not {@code null})
   */
  public abstract Iterator<Permission> iterator();

  /**
   * Iterate over this permission collection.
   *
   * @return the iterator (not {@code null})
```

```
     */
    public abstract Enumeration<Permission> elements();

    /**
     * Add an item to this collection.  The permission class must be the same as the source permission's class.
     *
     * @param permission the permission to add (must not be {@code null})
     */
    public final void add(final Permission permission) {
        Assert.checkNotNullParam("permission", permission);
        if (isReadOnly()) throw ElytronMessages.log.readOnlyPermissionCollection();
        @SuppressWarnings("rawtypes")
        Class<? extends AbstractPermission> expected =
sourcePermission.getClass().asSubclass(AbstractPermission.class);
        if (expected != permission.getClass()) {
            throw ElytronMessages.log.invalidPermissionType(expected, permission);
        }
        doAdd(expected.cast(permission));
    }

    /**
     * Perform the work of adding a permission.  The permission is guaranteed to be of the correct type and the
collection
     * is guaranteed to have been writable at the time the {@link #add(Permission)} method was called.
     *
     * @param permission the non-{@code null} permission
     */
    protected abstract void doAdd(final AbstractPermission<?> permission);

    final AbstractPermission<?> getSourcePermission() {
        return sourcePermission;
    }

    final Object writeReplace() {
        return new SerializedPermissionCollection(this);
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.common.Assert;

/**
* An abstract base class for named permissions that have actions, with useful API and implementation methods.  All
* the constraints described in {@link AbstractNamedPermission} apply.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractActionPermission<This extends AbstractActionPermission<This>> extends
AbstractNamedPermission<This> {
  private static final long serialVersionUID = - 1366777243917643233L;

  /**
   * Construct a new instance.
   *
   * @param name the permission name
   */
  protected AbstractActionPermission(final String name) {
     super(name);
  }

  /**
   * Determine whether this permission implies another permission.  Returns {@code true} if
   * both {@link #impliesActions(AbstractActionPermission)} and {@link
#impliesName(AbstractNamedPermission)}
   * return {@code true}.
   *
   * @param permission the other permission
   * @return {@code true} if this permission implies the other; {@code false} otherwise
   */
  public final boolean implies(final This permission) {
     return permission != null && impliesActions(permission) && impliesName(permission);
  }

  /**
   * Determine whether this permission is equal to another permission.  Returns {@code true} if
   * both {@link #actionsEquals(AbstractActionPermission)} and {@link
```

```
#nameEquals(AbstractNamedPermission)}
     * return {@code true}.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public final boolean equals(final This permission) {
        return super.equals(permission) && actionsEquals(permission);
    }

    public final int hashCode() {
        return super.hashCode() * 53 + actionsHashCode();
    }

    /**
     * Determine whether the actions of this permission are equal to the given {@code actions}.
     *
     * @param actions the actions string (must not be {@code null})
     * @return {@code true} if the actions are equal, {@code false} otherwise
     */
    public abstract boolean actionsEquals(String actions);

    /**
     * Determine whether the actions of this permission are equal to the actions of given {@code permission}.  If
     * the permission is not of the same type as this permission, {@code false} is returned.
     *
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if the actions are equal, {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean actionsEquals(Permission permission) {
        return permission != null && permission.getClass() == getClass() && actionsEquals((This) permission);
    }

    /**
     * Determine whether the actions of this permission are equal to the actions of given {@code permission}.
     *
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if the actions are equal, {@code false} otherwise
     */
    public abstract boolean actionsEquals(This permission);

    /**
     * Get the actions hash code.
     *
     * @return the actions hash code
     */
    protected abstract int actionsHashCode();
```

```
    /**
     * Determine whether this permission's actions value implies the given actions value.
     *
     * @param actions the actions to test (must not be {@code null})
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public abstract boolean impliesActions(String actions);

    /**
     * Determine whether this permission's actions value implies the actions of the given {@code permission}.  If
     * the permission is not of the same type as this permission, {@code false} is returned.
     *
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean impliesActions(Permission permission) {
        return permission != null && permission.getClass() == getClass() && impliesActions((This) permission);
    }

    /**
     * Determine whether this permission's actions value implies the actions of the given {@code permission}.
     *
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public abstract boolean impliesActions(This permission);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
     * from this permission and the actions from the given string.  The returned permission may or may not be a new
     * instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
     * from this permission and the actions from the given permission.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
```

```
    public This withActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withActions(permission.getActions());
    }

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the actions from the given string.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withoutActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the actions from the given permission.  The returned permission may or may not
be a new
     * instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withoutActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withActions(permission.getActions());
    }

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withNewActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withNewActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
```

```
        return withNewActions(permission.getActions());
    }
}
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*/

package org.wildfly.security.permission;

/**
* A base class for nameless and actionless permissions that are either granted or not granted.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractBooleanPermission<This extends AbstractBooleanPermission<This>> extends
AbstractPermission<This> {
    /**
     * Construct a new instance.
     */
    protected AbstractBooleanPermission() {
        super("");
    }

    public boolean implies(final This permission) {
        return permission != null;
    }

    public boolean equals(final This other) {
        return other != null;
    }

    public int hashCode() {
        return getClass().hashCode();
    }
```

```
  public AbstractPermissionCollection newPermissionCollection() {
     return new BooleanPermissionCollection(this);
  }
}
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;
import org.wildfly.security.util.StringMapping;

/**
* A general Elytron permission.  The permission {@code name} must be one of the following:
* <ul>
*     <li>{@code authenticate}</li>
*     <li>{@code createAuthenticator}</li>
*     <li>{@code createAuthenticationContextConfigurationClient}</li>
*     <li>{@code createSecurityDomain}</li>
*     <li>{@code createSecurityRealm}</li>
*     <li>{@code registerSecurityDomain}</li>
*     <li>{@code getSecurityDomain}</li>
*     <li>{@code unregisterSecurityDomain}</li>
*     <li>{@code setRunAsPrincipal}</li>
*     <li>{@code createServerAuthenticationContext}</li>
*     <li>{@code getPrivateCredentials}</li>
*     <li>{@code getIdentity}</li>
*     <li>{@code getIdentityForUpdate}</li>
*     <li>{@code createAdHocIdentity}</li>
* </ul>
* The {@code actions} are not used and should be empty or {@code null}.
```

```
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class ElytronPermission extends AbstractNameSetOnlyPermission<ElytronPermission> {

  private static final long serialVersionUID = 6124294238228442419L;

  private static final StringEnumeration strings = StringEnumeration.of(
     "authenticate",
     "createAuthenticator",
     "createAuthenticationContextConfigurationClient",
     "createSecurityDomain",
     "createSecurityRealm",
     "registerSecurityDomain",
     "getSecurityDomain",
     "unregisterSecurityDomain",
     "setRunAsPrincipal",
     "createServerAuthenticationContext",
     "getPrivateCredentials",
     "getIdentity",
     "getIdentityForUpdate",
     "createAdHocIdentity"
  );

  static final StringMapping<ElytronPermission> mapping = new StringMapping<>(strings,
ElytronPermission::new);

  private static final ElytronPermission allPermission = new ElytronPermission("*");

  /**
   * Construct a new instance.
   *
   * @param name the name of the permission
   */
  public ElytronPermission(final String name) {
     this(name, null);
  }

  /**
   * Construct a new instance.
   *
   * @param name the name of the permission
   * @param actions the actions (should be empty)
   */
  public ElytronPermission(final String name, final String actions) {
     super(name, strings);
     requireEmptyActions(actions);
  }
```

```
    public ElytronPermission withName(final String name) {
        return forName(name);
    }

    /**
     * Get the permission with the given name.
     *
     * @param name the name (must not be {@code null})
     * @return the permission (not {@code null})
     * @throws IllegalArgumentException if the name is not valid
     */
    public static ElytronPermission forName(final String name) {
        Assert.checkNotNullParam("name", name);
        return name.equals("*") ? allPermission : mapping.getItemByString(name);
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.Set;

/**
* A permission collection type which either does or does not hold its instance.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
```

```
public final class BooleanPermissionCollection extends AbstractPermissionCollection {
  private volatile boolean added;

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission for this collection (must not be {@code null})
   */
  public BooleanPermissionCollection(final AbstractPermission<?> sourcePermission) {
     super(sourcePermission);
  }

  public int size() {
     return added ? 1 : 0;
  }

  public Iterator<Permission> iterator() {
     return added ? getSingletonCollection().iterator() : Collections.emptyIterator();
  }

  public Enumeration<Permission> elements() {
     return added ? Collections.enumeration(getSingletonCollection()) : Collections.emptyEnumeration();
  }

  private Set<Permission> getSingletonCollection() {
     return Collections.singleton(getSourcePermission());
  }

  protected void doAdd(final AbstractPermission<?> permission) {
     added = true;
  }

  public boolean implies(final Permission permission) {
     return added && permission.getClass() == getSourcePermission().getClass();
  }
}
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*/

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;

final class SerializedPermissionCollection implements Serializable {
  private static final long serialVersionUID = - 8745428905589938281L;

  private final Permission s;
  private final Permission[] p;
  private final boolean r;

  SerializedPermissionCollection(final AbstractPermissionCollection collection) {
     s = collection.getSourcePermission();
     final ArrayList<Permission> list = new ArrayList<>(collection.size());
     collection.forEach(list::add);
     p = list.toArray(PermissionUtil.NO_PERMISSIONS);
     r = collection.isReadOnly();
  }

  Object readResolve() {
     final PermissionCollection collection = s.newPermissionCollection();
     for (Permission permission : p) {
        collection.add(permission);
     }
     if (r) collection.setReadOnly();
     return collection;
  }
}
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```

```
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security._private.ElytronMessages;
import org.wildfly.security.util.ArrayIterator;

/**
* A trivially simple permission collection, suitable as a default for most permission types (though probably not as efficient
* as a specialized type in many cases).
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class SimpleActionBitsPermissionCollection extends AbstractPermissionCollection {

  private static final AbstractActionSetPermission<?>[] NO_PERMS = new AbstractActionSetPermission<?>[0];

  private final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = new AtomicReference<>(NO_PERMS);

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission for this collection (must not be {@code null})
   */
  public SimpleActionBitsPermissionCollection(final AbstractActionSetPermission<?> sourcePermission) {
     super(sourcePermission);
  }

  public int size() {
     return permissionsRef.get().length;
  }

  @Override
  protected void doAdd(final AbstractPermission<?> permission) {
     if (permission instanceof AbstractActionSetPermission<?>) {
        doAdd((AbstractActionSetPermission<?>) permission);
```

```
    }
    throw ElytronMessages.log.invalidPermissionType(AbstractActionSetPermission.class, permission);
}

/**
 * Adds a permission.
 *
 * @param permission the non-{@code null} permission
 */
protected void doAdd(final AbstractActionSetPermission<?> permission) {
    AbstractActionSetPermission<?>[] oldVal, readVal, newVal;
    int count;
    final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = this.permissionsRef;
    do {
        readVal = permissionsRef.get();
        count = 0;
        do {
            oldVal = readVal;
            AbstractActionSetPermission<?> merged = permission;
            retry: for (;;) {
                for (AbstractActionSetPermission<?> test : oldVal) {
                    if (test.implies(merged)) {
                        // fail fast
                        return;
                    }
                    if (test.nameEquals(merged)) {
                        // combine
                        merged = merged.withActionBits(permission.getActionBits());
                        // test again with merged permission
                        count = 0;
                        continue retry;
                    }
                    if (! merged.implies(test)) {
                        // prepare to skip any permissions that are obviated by this one
                        count ++;
                    }
                }
                break;
            }
            // see if it's still what we expect before we commit to the possibly expensive update...
            readVal = permissionsRef.get();
        } while (readVal != oldVal);
        newVal = new AbstractActionSetPermission<?>[count + 1];
        int i = 0;
        for (AbstractActionSetPermission<?> test : oldVal) {
            if (! permission.implies(test)) {
                newVal[i++] = test;
            }
```

```
            }
            newVal[i] = permission;
        } while (! permissionsRef.compareAndSet(oldVal, newVal));
    }

    public boolean implies(final Permission permission) {
        for (Permission test : permissionsRef.get()) {
            if (test.implies(permission)) {
                return true;
            }
        }
        return false;
    }

    public Iterator<Permission> iterator() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }

    public Enumeration<Permission> elements() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
```

```
import java.util.concurrent.ConcurrentHashMap;

/**
* A permission collection for actionless permissions which are organized by name.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class ByNamePermissionCollection extends AbstractPermissionCollection {
  private final ConcurrentHashMap<String, Permission> byName = new ConcurrentHashMap<>();
  private volatile Permission all;

  /**
   * The source permission used to construct this collection.
   *
   * @param sourcePermission the source permission (must not be {@code null})
   */
  public ByNamePermissionCollection(final AbstractPermission<?> sourcePermission) {
     super(sourcePermission);
  }

  public int size() {
     return all != null ? 1 : byName.size();
  }

  public Iterator<Permission> iterator() {
     return getIterablePermissions().iterator();
  }

  public Enumeration<Permission> elements() {
     return Collections.enumeration(getIterablePermissions());
  }

  private Collection<Permission> getIterablePermissions() {
     return all != null ? Collections.singleton(all) :
Arrays.asList(byName.values().toArray(PermissionUtil.NO_PERMISSIONS));
  }

  protected void doAdd(final AbstractPermission<?> permission) {
     if (permission.getName().equals("*")) {
        all = permission;
        byName.clear();
     } else {
        byName.putIfAbsent(permission.getName(), permission);
     }
  }

  public boolean implies(final Permission permission) {
     if (permission == null || getSourcePermission().getClass() != permission.getClass()) {
```

```
            return false;
        }
        final Permission all = this.all;
        if (all != null) {
            return all.implies(permission);
        }
        final Permission ourPermission = byName.get(permission.getName());
        return ourPermission != null && ourPermission.implies(permission);
    }
}
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* limitations under the License.
*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security.util.ArrayIterator;

/**
* A trivially simple permission collection, suitable as a default for most permission types (though probably not as
efficient
* as a specialized type in many cases).
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class SimplePermissionCollection extends AbstractPermissionCollection {

    private static final long serialVersionUID = - 9157630531211570679L;
```

```
    private final AtomicReference<Permission[]> permissionsRef = new
AtomicReference<>(PermissionUtil.NO_PERMISSIONS);

    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission for this collection (must not be {@code null})
     */
    public SimplePermissionCollection(final AbstractPermission<?> sourcePermission) {
        super(sourcePermission);
    }

    public int size() {
        return permissionsRef.get().length;
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        Permission[] oldVal, readVal, newVal;
        int count;
        final AtomicReference<Permission[]> permissionsRef = this.permissionsRef;
        do {
            readVal = permissionsRef.get();
            do {
                count = 0;
                oldVal = readVal;
                for (Permission test : oldVal) {
                    if (test.implies(permission)) {
                        return;
                    }
                    if (! permission.implies(test)) {
                        // prepare to skip any permissions that are obviated by this one
                        count ++;
                    }
                }
                // see if it's still what we expect before we commit to the possibly expensive update...
                readVal = permissionsRef.get();
            } while (readVal != oldVal);
            newVal = new Permission[count + 1];
            int i = 0;
            for (Permission test : oldVal) {
                if (! permission.implies(test)) {
                    newVal[i++] = test;
                }
            }
            newVal[i] = permission;
        } while (! permissionsRef.compareAndSet(oldVal, newVal));
    }
```

```
    public boolean implies(final Permission permission) {
        for (Permission test : permissionsRef.get()) {
            if (test.implies(permission)) {
                return true;
            }
        }
        return false;
    }

    public Iterator<Permission> iterator() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }

    public Enumeration<Permission> elements() {
        return new ArrayIterator<Permission>(permissionsRef.get());
    }
}
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* limitations under the License.
*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import static org.wildfly.security.manager._private.SecurityMessages.permission;

import java.util.Arrays;
import java.util.EnumSet;
import java.util.Iterator;

/**
* A helper class for defining permissions which use a finite list of actions.  Define custom permissions using
* an {@code enum} of actions, where the string representation (via {@code toString()}) of each enum is one
```

```
possible
* action name.  Typically the {@code enum} should be non-public, and the constant names should be lowercase.  If
* an action name contains a character which is not a valid Java identifier, then the {@code toString()} method of
* such constants should be overridden to report the correct string.  The actions may be stored on the permission as
* an {@code EnumSet}, an {@code int}, or a {@code long}.  The field should be marked {@code transient}, and
* the actions represented by a (possibly synthetic) field of type {@code String} which uses the canonical
representation
* of the actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*
* @deprecated Use one of the abstract permission classes like {@link AbstractActionSetPermission} instead.
*/
@Deprecated
public final class PermissionActions {

  private PermissionActions() {
  }

  static final class TrieNode<E> {
     private static final char[] C_EMPTY = new char[0];
     private static final TrieNode[] T_EMPTY = new TrieNode[0];

     private E result;
     private char[] matches = C_EMPTY;
     @SuppressWarnings("unchecked")
     private TrieNode<E>[] children = T_EMPTY;

     void put(String s, int idx, E value) {
        if (idx == s.length()) {
           result = value;
           return;
        }
        char c = s.charAt(idx);
        final int i = Arrays.binarySearch(matches, c);
        if (i < 0) {
           // copy and add
           final int oldLength = matches.length;
           final char[] newMatches = Arrays.copyOf(matches, oldLength + 1);
           final TrieNode<E>[] newChildren = Arrays.copyOf(children, oldLength + 1);
           // i is the negated insertion index
           final int insertIndex = -i - 1;
           System.arraycopy(newMatches, insertIndex, newMatches, insertIndex + 1, oldLength - insertIndex);
           System.arraycopy(newChildren, insertIndex, newChildren, insertIndex + 1, oldLength - insertIndex);
           newMatches[insertIndex] = c;
           final TrieNode<E> newNode = new TrieNode<>();
           newChildren[insertIndex] = newNode;
           matches = newMatches;
```

```
            children = newChildren;
            newNode.put(s, idx + 1, value);
        } else {
            children[i].put(s, idx + 1, value);
        }
    }

    E get(String s, int idx, int end) {
        if (idx == end) {
            return result;
        }
        final char c = s.charAt(idx);
        final int i = Arrays.binarySearch(matches, c);
        if (i < 0) {
            return null;
        }
        return children[i].get(s, idx + 1, end);
    }
}

static final class Info<E> {
    final TrieNode<E> root;
    final E[] constants;

    Info(final TrieNode<E> root, final E[] constants) {
        this.root = root;
        this.constants = constants;
    }
}

private static final ClassValue<Info<?>> storedInfo = new ClassValue<Info<?>>() {
    protected Info<?> computeValue(final Class<?> type) {
        return computeReal(type);
    }

    private <E> Info<E> computeReal(final Class<E> type) {
        final TrieNode<E> root = new TrieNode<>();
        final E[] enumConstants = type.getEnumConstants();
        for (E e : enumConstants) {
            root.put(e.toString(), 0, e);
        }
        return new Info<>(root, type.getEnumConstants());
    }
};

interface MatchAction<E extends Enum<E>> {
    void matched(E item);
```

```
    void matchedAll(Class<E> type);
}

static class SetMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private EnumSet<E> set;

    SetMatchAction(final EnumSet<E> set) {
        this.set = set;
    }

    public void matched(final E item) {
        set.add(item);
    }

    public void matchedAll(final Class<E> type) {
        set = EnumSet.allOf(type);
    }

    public EnumSet<E> getSet() {
        return set;
    }
}

static class IntMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private int result;

    IntMatchAction() {
    }

    public void matched(final E item) {
        result |= 1 << item.ordinal();
    }

    public void matchedAll(final Class<E> type) {
        result |= (1 << storedInfo.get(type).constants.length) - 1;
    }

    public int getResult() {
        return result;
    }
}

static class LongMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private long result;

    LongMatchAction() {
    }
```

```
        public void matched(final E item) {
            result |= 1L << item.ordinal();
        }

        public void matchedAll(final Class<E> type) {
            result |= (1L << storedInfo.get(type).constants.length) - 1;
        }

        public long getResult() {
            return result;
        }
    }

    /**
     * Parse an action string using the given action type to an {@code EnumSet}.
     *
     * @param actionType the action {@code enum} type class
     * @param actionString the string to parse
     * @param <E> the action {@code enum} type
     *
     * @return the set of actions from the string
     *
     * @throws IllegalArgumentException if the string contained an invalid action
     */
    public static <E extends Enum<E>> EnumSet<E> parseActionStringToSet(Class<E> actionType, String
actionString) throws IllegalArgumentException {
        Assert.checkNotNullParam("actionType", actionType);
        Assert.checkNotNullParam("actionString", actionString);
        final SetMatchAction<E> matchAction = new SetMatchAction<>(EnumSet.noneOf(actionType));
        doParse(actionType, actionString, matchAction);
        return matchAction.getSet();
    }

    /**
     * Parse an action string using the given action type to an {@code int}.  The given {@code enum} type must have
     * 32 or fewer constant values.
     *
     * @param actionType the action {@code enum} type class
     * @param actionString the string to parse
     * @param <E> the action {@code enum} type
     *
     * @return the set of actions from the string
     *
     * @throws IllegalArgumentException if the string contained an invalid action
     */
    public static <E extends Enum<E>> int parseActionStringToInt(Class<E> actionType, String actionString) throws
IllegalArgumentException {
        Assert.checkNotNullParam("actionType", actionType);
```

```
        Assert.checkNotNullParam("actionString", actionString);
        final IntMatchAction<E> matchAction = new IntMatchAction<>();
        doParse(actionType, actionString, matchAction);
        return matchAction.getResult();
    }

    /**
     * Parse an action string using the given action type to a {@code long}.  The given {@code enum} type must have
     * 64 or fewer constant values.
     *
     * @param actionType the action {@code enum} type class
     * @param actionString the string to parse
     * @param <E> the action {@code enum} type
     *
     * @return the set of actions from the string
     *
     * @throws IllegalArgumentException if the string contained an invalid action
     */
    public static <E extends Enum<E>> long parseActionStringToLong(Class<E> actionType, String actionString)
throws IllegalArgumentException {
        Assert.checkNotNullParam("actionType", actionType);
        Assert.checkNotNullParam("actionString", actionString);
        final LongMatchAction<E> matchAction = new LongMatchAction<>();
        doParse(actionType, actionString, matchAction);
        return matchAction.getResult();
    }

    private static <E extends Enum<E>> void doParse(final Class<E> actionType, final String actionString, final
MatchAction<E> matchAction) {
        @SuppressWarnings("unchecked")
        final Info<E> info = (Info<E>) storedInfo.get(actionType);
        final TrieNode<E> rootNode = info.root;
        // begin parse
        char c;
        final int length = actionString.length();
        int i = 0;
        L0: for (;;) {
            if (i == length) {
                // OK
                break L0;
            }
            c = actionString.charAt(i);
            if (Character.isWhitespace(c)) {
                i ++;
                continue L0;
            }
            if (c == ',') {
                // hmm, empty segment; ignore it
```

```
            i ++;
            continue L0;
        }
        if (c == '*') {
            // potential star
            matchAction.matchedAll(actionType);
            for (;;) {
                i ++;
                if (i == length) {
                    // done
                    break L0;
                }
                c = actionString.charAt(i);
                if (c == ',') {
                    // pointless, but go on
                    i ++;
                    continue L0;
                }
                if (! Character.isWhitespace(c)) {
                    throw permission.unexpectedActionCharacter(c, i, actionString);
                }
            }
            // not reachable
        }
        // else it's a potentially valid character
        int start = i;
        for (;;) {
            i++;
            c = i < length ? actionString.charAt(i) : 0;
            if (i == length || Character.isWhitespace(c) || c == ',') {
                // action string ends here
                final E action = rootNode.get(actionString, start, i);
                if (action == null) {
                    throw permission.invalidAction(actionString.substring(start, i), start, actionString);
                }
                matchAction.matched(action);
                if (i == length) {
                    // done
                    break L0;
                }
                while (Character.isWhitespace(c)) {
                    i++;
                    if (i == length) {
                        // done
                        break L0;
                    }
                    c = actionString.charAt(i);
                }
```

```
                if (c != ',') {
                    throw permission.unexpectedActionCharacter(c, i, actionString);
                }
                i ++;
                continue L0;
            }
        }
        // not reachable
    }
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(EnumSet<E> set) {
    if (set == null || set.isEmpty()) return "";
    final StringBuilder b = new StringBuilder();
    getCanonicalActionString(set, b);
    return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(EnumSet<E> set, StringBuilder b) {
    if (set == null || set.isEmpty()) return;
    final Iterator<E> iterator = set.iterator();
    if (iterator.hasNext()) {
        E e = iterator.next();
        b.append(e.toString());
        while (iterator.hasNext()) {
            e = iterator.next();
            b.append(',');
            b.append(e.toString());
        }
    }
}

/**
 * Get the canonical action string representation for the given action set.
```

```
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param <E> the action type
     * @return the canonical representation
     */
    public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, int set) {
        if (set == 0) return "";
        final StringBuilder b = new StringBuilder();
        getCanonicalActionString(type, set, b);
        return b.toString();
    }

    /**
     * Get the canonical action string representation for the given action set, appending it to the given string builder.
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param b the string builder
     * @param <E> the action type
     */
    public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, int set, StringBuilder b) {
        if (set == 0) return;
        @SuppressWarnings("unchecked")
        final E[] constants = (E[]) storedInfo.get(type).constants;
        int bit = Integer.lowestOneBit(set);
        E e = constants[Integer.numberOfTrailingZeros(bit)];
        b.append(e.toString());
        set &= ~bit;
        while (set != 0) {
            bit = Integer.lowestOneBit(set);
            e = constants[Integer.numberOfTrailingZeros(bit)];
            b.append(',').append(e.toString());
            set &= ~bit;
        }
    }

    /**
     * Get the canonical action string representation for the given action set.
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param <E> the action type
     * @return the canonical representation
     */
    public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, long set) {
        if (set == 0) return "";
        final StringBuilder b = new StringBuilder();
```

```
        getCanonicalActionString(type, set, b);
        return b.toString();
    }

    /**
     * Get the canonical action string representation for the given action set, appending it to the given string builder.
     *
     * @param type the action {@code enum} type class
     * @param set the action set
     * @param b the string builder
     * @param <E> the action type
     */
    public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, long set, StringBuilder b) {
        if (set == 0) return;
        @SuppressWarnings("unchecked")
        final E[] constants = (E[]) storedInfo.get(type).constants;
        long bit = Long.lowestOneBit(set);
        E e = constants[Long.numberOfTrailingZeros(bit)];
        b.append(e.toString());
        set &= ~bit;
        while (set != 0) {
            bit = Long.lowestOneBit(set);
            e = constants[Long.numberOfTrailingZeros(bit)];
            b.append(',').append(e.toString());
            set &= ~bit;
        }
    }
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package org.wildfly.security.permission;
```

```
/**
* An exception which is thrown when an invalid permission class is instantiated.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public class InvalidPermissionClassException extends IllegalArgumentException {
  private static final long serialVersionUID = 7910334218992625018L;

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance.  The message is left blank ({@code
null}), and
   * no
   * cause is specified.
   */
  public InvalidPermissionClassException() {
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial message.  No
   * cause is specified.
   *
   * @param msg the message
   */
  public InvalidPermissionClassException(final String msg) {
     super(msg);
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial cause.  If
   * a non-{@code null} cause is specified, its message is used to initialize the message of this
   * {@code InvalidPermissionClassException}; otherwise the message is left blank ({@code null}).
   *
   * @param cause the cause
   */
  public InvalidPermissionClassException(final Throwable cause) {
     super(cause);
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial message and cause.
   *
   * @param msg the message
   * @param cause the cause
   */
  public InvalidPermissionClassException(final String msg, final Throwable cause) {
     super(msg, cause);
  }
}
```

```
/*
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicInteger;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class IntNameSetPermissionCollection extends NameSetPermissionCollection {

  private final AtomicInteger bitSet = new AtomicInteger();

  IntNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
     super(sourcePermission, nameEnumeration);
  }

  private Permission permissionFor(int id) {
     return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
  }

  protected void doAdd(final AbstractPermission<?> permission) {
     int setBits= getBitsForName(permission);
     final AtomicInteger bitSet = this.bitSet;
     int oldVal;
     do {
        oldVal = bitSet.get();
        if ((oldVal & setBits) == setBits) {
```

```
            return;
        }
    } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
}

public boolean implies(final Permission permission) {
    if (permission.getClass() != getSourcePermission().getClass()) {
        return false;
    }
    long testBits = getBitsForName(permission);
    return (bitSet.get() & testBits) == testBits;
}

public int size() {
    final int size = Integer.bitCount(bitSet.get());
    return size == getNameEnumeration().size() ? 1 : size;
}

public EnumerationIterator<Permission> iterator() {
    return new Iter(bitSet.get());
}

public EnumerationIterator<Permission> elements() {
    return iterator();
}

private int getBitsForName(final Permission permission) {
    final int bits;
    final String name = permission.getName();
    final StringEnumeration nameEnumeration = getNameEnumeration();
    if ("*".equals(name)) {
        // add all names
        bits = (1 << nameEnumeration.size()) - 1;
    } else {
        bits = 1 << nameEnumeration.indexOf(name);
    }
    return bits;
}

private class Iter implements EnumerationIterator<Permission> {
    private int bits;

    Iter(final int bits) {
        this.bits = bits;
    }

    public boolean hasMoreElements() {
        return bits != 0;
```

```
        }

        public Permission nextElement() {
            final int bits = this.bits;
            if (bits == 0) throw new NoSuchElementException();
            if (Integer.bitCount(bits) == getNameEnumeration().size()) {
                this.bits = 0;
                return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
            }
            int bit = Integer.lowestOneBit(bits);
            this.bits = bits & ~bit;
            return permissionFor(Integer.numberOfTrailingZeros(bit));
        }

        public boolean hasNext() {
            return hasMoreElements();
        }

        public Permission next() {
            return nextElement();
        }
    }

}
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*/

package org.wildfly.security.permission;

/**
* A permission which has a name only, and no actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
```

```
*/
public abstract class AbstractNameOnlyPermission<This extends AbstractNameOnlyPermission<This>> extends
AbstractNamedPermission<This> {
  /**
   * Construct a new instance.
   *
   * @param name the permission name (must not be {@code null})
   */
  protected AbstractNameOnlyPermission(final String name) {
     super(name);
  }

  public AbstractPermissionCollection newPermissionCollection() {
     return new ByNamePermissionCollection(this);
  }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.security._private.ElytronMessages;

/**
* An abstract base class for any permission.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractPermission<This extends AbstractPermission<This>> extends Permission implements
PermissionVerifier {
  /**
```

```
     * Construct a new instance.
     *
     * @param name the permission name
     */
    protected AbstractPermission(final String name) {
        super(name);
    }

    /**
     * Determine whether this permission implies another permission.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean implies(Permission permission) {
        return permission != null && getClass() == permission.getClass() && implies((This) permission);
    }

    /**
     * Determine whether this permission implies another permission.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public abstract boolean implies(This permission);

    /**
     * Determine whether this permission object is equal to another object.
     *
     * @param obj the object to compare to
     * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean equals(final Object obj) {
        return obj != null && obj.getClass() == getClass() && equals((This) obj);
    }

    /**
     * Determine whether this permission object is equal to another object of this permission type.
     *
     * @param other the permission to compare to
     * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
     */
    public abstract boolean equals(This other);

    /**
     * Get the hash code of this permission.  The result must be consistent with the defined {@link
```

```
#equals(AbstractPermission)}
     * result.
     *
     * @return the hash code of this permission
     */
    public abstract int hashCode();

    /**
     * Get the actions string.  The default implementation always returns an empty string.
     *
     * @return the actions string (not {@code null})
     */
    public String getActions() {
        return "";
    }

    /**
     * Get an empty permission collection which is capable of holding instances of this permission type.
     * <p>
     * The default implementation returns a {@link SimplePermissionCollection}.
     *
     * @return the permission collection to use
     */
    public AbstractPermissionCollection newPermissionCollection() {
        return new SimplePermissionCollection(this);
    }

    /**
     * Check to ensure that the given action string is empty or {@code null}; otherwise, throw an exception.
     *
     * @param actions the actions string
     * @throws IllegalArgumentException if the actions string is not empty
     */
    protected static void requireEmptyActions(final String actions) throws IllegalArgumentException {
        if (actions != null && ! actions.isEmpty()) {
            throw ElytronMessages.log.expectedEmptyActions(actions);
        }
    }

    final Object writeReplace() {
        return new SerializedPermission(getClass(), getName(), getActions());
    }
}
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*/

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class IntersectionPermissionCollection extends PermissionCollection implements PermissionVerifier {
  private static final long serialVersionUID = 8045087406778847303L;

  private final PermissionCollection pc1;
  private final PermissionCollection pc2;

  IntersectionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
     this.pc1 = pc1;
     this.pc2 = pc2;
     setReadOnly();
  }

  public void add(final Permission permission) {
     throw ElytronMessages.log.readOnlyPermissionCollection();
  }

  public boolean implies(final Permission permission) {
     return pc1.implies(permission) && pc2.implies(permission);
  }

  public Enumeration<Permission> elements() {
     // TODO: this is theoretically possible to implement using an IntersectionCollectionPermission;
     // however the primary use case is going to be in protection domains and verification scenarios so we may
     // not ever actually need this
     throw Assert.unsupported();
  }
```

```
}
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package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringMapping;

/**
* Stub class for the unlikely event that a serialized instance is lying around somewhere.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
@Deprecated
final class ElytronPermissionCollection extends PermissionCollection implements Serializable {

  private static final long serialVersionUID = 1L;

  private final int p1;

  ElytronPermissionCollection(final int p1) {
     this.p1 = p1;
  }

  public void add(final Permission permission) {
     throw Assert.unsupported();
  }
```

```
  public boolean implies(final Permission permission) {
     throw Assert.unsupported();
  }

  public Enumeration<Permission> elements() {
     throw Assert.unsupported();
  }

  Object readResolve() {
     final AbstractPermissionCollection collection = new ElytronPermission("*").newPermissionCollection();
     final StringMapping<ElytronPermission> mapping = ElytronPermission.mapping;
     int bits = p1;
     int test;
     while (bits != 0) {
        collection.add(mapping.getItemById(Integer.numberOfTrailingZeros(test = Integer.lowestOneBit(bits))));
        bits &= ~test;
     }
     if (isReadOnly()) {
        collection.setReadOnly();
     }
     return collection;
  }
}
```

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==
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==

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2.568 wildfly-client-config 1.0.0.CR2

2.569 wildfly-clustering-api 14.0.1.Final

2.570 wildfly-clustering-common 14.0.1.Final

2.571 wildfly-clustering-ee-infinispan 14.0.1.Final

2.572 wildfly-clustering-ee-spi 14.0.1.Final

2.573 wildfly-clustering-ejb-infinispan 14.0.1.Final

2.574 wildfly-clustering-ejb-spi 14.0.1.Final

2.575 wildfly-clustering-infinispan-extension 14.0.1.Final

2.576 wildfly-clustering-infinispan-spi 14.0.1.Final

2.577 wildfly-clustering-jgroups-api 14.0.1.Final

2.578 wildfly-clustering-jgroups-extension 14.0.1.Final

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2.580 wildfly-clustering-marshalling-api 14.0.1.Final

2.581 wildfly-clustering-marshalling-infinispan 14.0.1.Final

2.582 wildfly-clustering-marshalling-jboss 14.0.1.Final

2.583 wildfly-clustering-marshalling-spi 14.0.1.Final

2.584 wildfly-clustering-server 14.0.1.Final

2.585 wildfly-clustering-service 14.0.1.Final

2.586 wildfly-clustering-singleton-api 14.0.1.Final

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2.591 wildfly-clustering-web-spi 14.0.1.Final

2.592 wildfly-clustering-web-undertow 14.0.1.Final

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2.595 wildfly-config-gen 2.0.0.Final

2.596 wildfly-configadmin 14.0.1.Final

2.597 wildfly-connector 14.0.1.Final

2.598 wildfly-controller 6.0.2.Final

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```

```
*/

package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;

import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;

/**
* {@link PermissionCollection} for use with {@link ManagementPermission}. It's homogeneous.
*
* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public class ManagementPermissionCollection extends PermissionCollection {

  private final Class<? extends ManagementPermission> type;

  private final String name;
  private final Map<Action.ActionEffect, ManagementPermission> permissions = new
HashMap<Action.ActionEffect, ManagementPermission>();

  public ManagementPermissionCollection(Class<? extends ManagementPermission> type) {
     this(null, type);
  }

  public ManagementPermissionCollection(String name, Class<? extends ManagementPermission> type) {
     this.name = name;
     this.type = type;
  }

  @Override
  public void add(Permission permission) {
     if (isReadOnly()) {
        throw ControllerLogger.ROOT_LOGGER.permissionCollectionIsReadOnly();
     }

     if (type.equals(permission.getClass())) {
        ManagementPermission mperm = (ManagementPermission) permission;
        synchronized (permissions) {
           permissions.put(mperm.getActionEffect(), mperm);
        }
     } else {
```

```
            throw ControllerLogger.ROOT_LOGGER.incompatiblePermissionType(permission.getClass());
        }
    }

    @Override
    public boolean implies(Permission permission) {
        if (permission instanceof ManagementPermission) {
            ManagementPermission mperm = (ManagementPermission) permission;
            Action.ActionEffect actionEffect = mperm.getActionEffect();
            ManagementPermission provided;
            synchronized (permissions) {
                provided = permissions.get(actionEffect);
            }
            if (provided == null) {
                ControllerLogger.ACCESS_LOGGER.tracef("Permission collection '%s' does not provide a permission for
%s", name, actionEffect);
                return false;
            } else if (!provided.implies(mperm)) {
                ControllerLogger.ACCESS_LOGGER.tracef("Permission provided in collection '%s' for action %s does
not imply the requested permission", name, actionEffect);
                return false;
            }
            return true;
        }
        ControllerLogger.ACCESS_LOGGER.tracef("Permission collection %s does not imply %s as it is not a
ManagementPermission", name, permission);
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        final Iterator<ManagementPermission> iterator = iterator();
        return new Enumeration<Permission>() {
            @Override
            public boolean hasMoreElements() {
                return iterator.hasNext();
            }

            @Override
            public Permission nextElement() {
                return iterator.next();
            }
        };
    }

    public String getName() {
        return name;
    }
```

```
    private Iterator<ManagementPermission> iterator() {
        synchronized (permissions) {
            return permissions.values().iterator();
        }
    }
}
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*/

package org.jboss.as.controller.access.permission;

import java.security.PermissionCollection;

import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.Caller;
import org.jboss.as.controller.access.Environment;
import org.jboss.as.controller.access.JmxAction;
import org.jboss.as.controller.access.JmxTarget;
import org.jboss.as.controller.access.TargetAttribute;
import org.jboss.as.controller.access.TargetResource;

/**
* Factory for a compatible set of permissions. Implementations must ensure that the permissions returned
* by the {@code getUserPermissions} methods are compatible with the permissions returned by the
* {@code getRequiredPermissions} methods. Compatible means the user permissions can correctly
* evaluate whether they
* {@link java.security.Permission#implies(java.security.Permission) imply the required permissions}
*
```

```
* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public interface PermissionFactory {

   PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, Action action,
TargetAttribute target);

   PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, Action action,
TargetResource target);

   PermissionCollection getRequiredPermissions(Action action, TargetAttribute target);

   PermissionCollection getRequiredPermissions(Action action, TargetResource target);

   PermissionCollection getUserPermissions(Caller caller, Environment callEnvironment, JmxAction action,
JmxTarget target);

   PermissionCollection getRequiredPermissions(JmxAction action, JmxTarget target);
}
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*/

package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;
import java.util.Set;
import java.util.TreeSet;
```

```
import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.CombinationPolicy;

/**
* A {@link ManagementPermission} that combines multiple underlying permissions according
* to a {@link org.jboss.as.controller.access.CombinationPolicy}.
*
* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public class CombinationManagementPermission extends ManagementPermission {

  private final CombinationPolicy combinationPolicy;
  private final Map<String, ManagementPermission> underlyingPermissions = new HashMap<String,
ManagementPermission>();

  public CombinationManagementPermission(CombinationPolicy combinationPolicy, Action.ActionEffect
actionEffect) {
     super("CombinationManagementPermission", actionEffect);
     this.combinationPolicy = combinationPolicy;
  }

  /**
   * Adds a permission.
   * <p>
   * This method should not be called after the instance has been made visible to another thread
   * than the one that constructed it.
   * </p>
   * @param permissionName name of the permission to add. Cannot be {@code null}
   * @param underlyingPermission the permission. Cannot be {@code null}
   */
  public void addUnderlyingPermission(String permissionName, ManagementPermission underlyingPermission) {
     assert underlyingPermission.getActionEffect() == getActionEffect() : "incompatible ActionEffect";
     if (combinationPolicy == CombinationPolicy.REJECTING && underlyingPermissions.size() > 0) {
        throw ControllerLogger.ROOT_LOGGER.illegalMultipleRoles();
     }
     underlyingPermissions.put(permissionName, underlyingPermission);
  }

  @Override
  public String getActions() {
     Set<Action.ActionEffect> effects = new TreeSet<Action.ActionEffect>();
     for (ManagementPermission permission : underlyingPermissions.values()) {
        effects.add(permission.getActionEffect());
     }
     boolean first = true;
     StringBuilder sb = new StringBuilder();
```

```
        for (Action.ActionEffect effect : effects) {
            if (!first) {
                sb.append(',');
            } else {
                first = false;
            }
            sb.append(effect.toString());
        }
        return sb.toString();
    }

    @Override
    public boolean implies(Permission permission) {
        if (combinationPolicy == CombinationPolicy.PERMISSIVE) {
            for (ManagementPermission underlying : underlyingPermissions.values()) {
                if (underlying.implies(permission)) {
                    return true;
                }
            }
            if (ControllerLogger.ACCESS_LOGGER.isTraceEnabled()) {
                ControllerLogger.ACCESS_LOGGER.tracef("None of the underlying permissions %s imply %s",
underlyingPermissions.keySet(), permission);
            }
            return false;
        } else {
            for (Map.Entry<String, ManagementPermission> underlying : underlyingPermissions.entrySet()) {
                if (!underlying.getValue().implies(permission)) {
                    ControllerLogger.ACCESS_LOGGER.tracef("Underlying permission %s does not imply %s",
underlying.getKey(), permission);
                    return false;
                }
            }
            return true;

        }
    }

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

        CombinationManagementPermission that = (CombinationManagementPermission) o;

        // TODO I believe that actionEffect should be taken into account here (and in hashCode)

        return combinationPolicy == that.combinationPolicy &&
underlyingPermissions.equals(that.underlyingPermissions);
```

```
    }

    @Override
    public int hashCode() {
        int result = combinationPolicy.hashCode();
        result = 31 * result + underlyingPermissions.hashCode();
        return result;
    }
}
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*/

package org.jboss.as.controller.access.permission;

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

import org.jboss.as.controller.ControlledProcessState;
import org.jboss.as.controller.PathAddress;
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.AuthorizationResult;
import org.jboss.as.controller.access.Authorizer;
import org.jboss.as.controller.access.Caller;
import org.jboss.as.controller.access.Environment;
import org.jboss.as.controller.access.JmxAction;
```

```
import org.jboss.as.controller.access.JmxTarget;
import org.jboss.as.controller.access.TargetAttribute;
import org.jboss.as.controller.access.TargetResource;
import org.jboss.as.controller.descriptions.ModelDescriptionConstants;
import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.dmr.ModelNode;

/**
* {@link Authorizer} based on {@link ManagementPermission}s configured by a {@link PermissionFactory}.
*
* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public class ManagementPermissionAuthorizer implements Authorizer {
  private final PermissionFactory permissionFactory;

  public ManagementPermissionAuthorizer(PermissionFactory permissionFactory) {
    this.permissionFactory = permissionFactory;
  }

  @Override
  public AuthorizerDescription getDescription() {
    // We go ahead and create this each time because we expect this to be overridden anyway
    return new AuthorizerDescription() {
      @Override
      public boolean isRoleBased() {
        return true;
      }

      @Override
      public Set<String> getStandardRoles() {
        return Collections.emptySet();
      }
    };
  }

  @Override
  public AuthorizationResult authorize(Caller caller, Environment callEnvironment, Action action, TargetAttribute
target) {
    assert assertSameAddress(action, target.getTargetResource());
    if (isServerBooting(callEnvironment)) {
      return AuthorizationResult.PERMITTED;
    }
    PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
    PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
    return authorize(userPerms, requiredPerms);
  }
```

```
  @Override
  public AuthorizationResult authorize(Caller caller, Environment callEnvironment, Action action, TargetResource
target) {
     assert assertSameAddress(action, target);
     if (isServerBooting(callEnvironment)) {
        return AuthorizationResult.PERMITTED;
     }
     PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
     if (userPerms == AllPermissionsCollection.INSTANCE) {
        return AuthorizationResult.PERMITTED;
     }
     PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
     return authorize(userPerms, requiredPerms);
  }

  private static boolean assertSameAddress(Action action, TargetResource target) {
     ModelNode operation = action.getOperation();
     // operation can be null in some unit tests; to be lazy ignore those cases
     return operation == null ||
target.getResourceAddress().equals(PathAddress.pathAddress(operation.get(ModelDescriptionConstants.OP_ADD
R)));
  }

  private AuthorizationResult authorize(PermissionCollection userPermissions, PermissionCollection
requiredPermissions) {

     final Enumeration<Permission> enumeration = requiredPermissions.elements();
     while (enumeration.hasMoreElements()){
        Permission requiredPermission = enumeration.nextElement();
        if (!userPermissions.implies(requiredPermission)) {
           return new AuthorizationResult(AuthorizationResult.Decision.DENY,
                 new ModelNode(ControllerLogger.ROOT_LOGGER.permissionDenied()));
        }
     }
     return AuthorizationResult.PERMITTED;
  }

  @Override
  public AuthorizationResult authorizeJmxOperation(Caller caller, Environment callEnvironment, JmxAction
action, JmxTarget target) {
     if (isServerBooting(callEnvironment)) {
        return AuthorizationResult.PERMITTED;
     }
     PermissionCollection userPerms = permissionFactory.getUserPermissions(caller, callEnvironment, action,
target);
     PermissionCollection requiredPerms = permissionFactory.getRequiredPermissions(action, target);
     return authorize(userPerms, requiredPerms);
```

```
    }

    @Override
    public Set<String> getCallerRoles(Caller caller, Environment callEnvironment, Set<String> runAsRoles) {
        // Not supported in this base class; see StandardRBACAuthorizer
        return null;
    }

    private boolean isServerBooting(Environment callEnvironment) {
        return callEnvironment != null && callEnvironment.getProcessState() ==
ControlledProcessState.State.STARTING;
    }
}
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*/

package org.jboss.as.controller.access.permission;

import java.security.Permission;
import java.util.List;

import org.jboss.as.controller.logging.ControllerLogger;
import org.jboss.as.controller.access.Action;
import org.jboss.as.controller.access.constraint.Constraint;

/**
* Simple implementation of {@link ManagementPermission}.
*
* @author Brian Stansberry (c) 2013 Red Hat Inc.
```

```
*/
public class SimpleManagementPermission extends ManagementPermission {

  private final Constraint[] constraints;
  /**
   * Constructs a permission with the specified name.
   */
  public SimpleManagementPermission(Action.ActionEffect actionEffect, List<Constraint> constraints) {
     this(actionEffect, constraints.toArray(new Constraint[constraints.size()]));
  }

  public SimpleManagementPermission(Action.ActionEffect actionEffect, Constraint... constraints) {
     super("SimpleManagementPermission", actionEffect);
     this.constraints = constraints;
  }

  @Override
  public boolean implies(Permission permission) {
     if (equals(permission)) {
        SimpleManagementPermission other = (SimpleManagementPermission) permission;
        // Validate constraints
        assert constraints.length == other.constraints.length : String.format("incompatible ManagementPermission; "
+
              "differing constraint counts %d vs %d", constraints.length, other.constraints.length);
        Action.ActionEffect actionEffect = getActionEffect();
        for (int i = 0; i < constraints.length; i++) {
           Constraint ours = constraints[i];
           Constraint theirs = other.constraints[i];
           assert ours.getClass() == theirs.getClass() : "incompatible constraints: ours = " + ours.getClass() + " --
theirs = " + theirs.getClass();
           if (ours.violates(theirs, actionEffect)) {
              ControllerLogger.ACCESS_LOGGER.tracef("Constraints are violated for %s", actionEffect);
              return false;
           }
        }
        return true;
     }
     return false;
  }

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

     ManagementPermission that = (ManagementPermission) o;

     return getActionEffect() == that.getActionEffect();
```

```
    }

    @Override
    public int hashCode() {
        return getActionEffect().hashCode();
    }

    @Override
    public String getActions() {
        return getActionEffect().toString();
    }

    public ManagementPermission createScopedPermission(Constraint constraint, int constraintIndex) {
        Constraint[] altered;
        if (constraintIndex == constraints.length) {
            altered = new Constraint[constraintIndex + 1];
            System.arraycopy(constraints, 0, altered, 0, constraints.length);
        } else {
            Constraint existing = constraints[constraintIndex];
            if (constraint.replaces(existing)) {
                altered = new Constraint[constraints.length];
                System.arraycopy(constraints, 0, altered, 0, constraints.length);
            } else {
                altered = new Constraint[constraintIndex + 1];
                if (constraintIndex == 0) {
                    System.arraycopy(constraints, 0, altered, 1, constraints.length);
                } else {
                    System.arraycopy(constraints, 0, altered, 0, constraintIndex);
                    System.arraycopy(constraints, constraintIndex, altered, constraintIndex + 1, constraints.length -
constraintIndex);
                }
            }
        }
        altered[constraintIndex] = constraint;
        return new SimpleManagementPermission(getActionEffect(), altered);
    }
}
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* 02110-1301 USA, or see the FSF site: http://www.fsf.org.
*/

package org.jboss.as.controller.access.permission;

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

import org.jboss.as.controller.access.Action;

/**
* Base class for {@link Permission} implementations related to WildFly access control.
*
* @author Brian Stansberry (c) 2013 Red Hat Inc.
*/
public abstract class ManagementPermission extends Permission {

  private final Action.ActionEffect actionEffect;

  /**
   * Constructs a permission with the specified name and action effect.
   */
  ManagementPermission(String name, Action.ActionEffect actionEffect) {
     super(name);
     this.actionEffect = actionEffect;
  }

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

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

     ManagementPermission that = (ManagementPermission) o;
```

```
        return actionEffect == that.actionEffect;

    }

    @Override
    public int hashCode() {
        return actionEffect.hashCode();
    }

    @Override
    public String getActions() {
        return actionEffect.toString();
    }

    public Action.ActionEffect getActionEffect() {
        return actionEffect;
    }
}
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*/

package org.jboss.as.controller.access.permission;

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

/**
* {@link PermissionCollection} that implies all permissions.
```

```
 *
 * @author Brian Stansberry (c) 2013 Red Hat Inc.
 */
public final class AllPermissionsCollection extends PermissionCollection {

    public static final AllPermissionsCollection INSTANCE = new AllPermissionsCollection();

    private AllPermissionsCollection() {
    }

    @Override
    public void add(Permission permission) {
        throw new UnsupportedOperationException();
    }

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

    @Override
    public Enumeration<Permission> elements() {
        throw new UnsupportedOperationException();
    }
}
```

2.599 wildfly-controller-client 6.0.2.Final

2.600 wildfly-core-feature-pack 6.0.2.Final

2.601 wildfly-core-management-client 6.0.2.Final

2.602 wildfly-core-management-subsystem 6.0.2.Final

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/**
* Permissions which pertain to authentication and authorization.
*/
package org.wildfly.security.auth.permission;
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*/

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
* The permission to change a role mapper category on a security identity.
*/
public final class ChangeRoleMapperPermission extends
AbstractNameOnlyPermission<ChangeRoleMapperPermission> {

  private static final long serialVersionUID = - 6742662884954321082L;

  /**
   * Construct a new instance.
   *
   * @param name the category name, or {@code *} for all categories
   */
  public ChangeRoleMapperPermission(final String name) {
     super(name);
  }
```

```
    /**
     * Construct a new instance.
     *
     * @param name the category name, or {@code *} for all categories
     * @param ignored the permission actions (ignored)
     */
    public ChangeRoleMapperPermission(final String name, @SuppressWarnings("unused") final String ignored) {
        this(name);
    }

    public ChangeRoleMapperPermission withName(final String name) {
        return new ChangeRoleMapperPermission(name);
    }
}
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*/

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractNameOnlyPermission;

/**
* The permission to run as another principal within some security domain.  Note that this permission is checked
relative
* to the security domain that the user is authenticated to.  The principal name is the effective name after all rewrite
* operations have taken place.
*/
public final class RunAsPrincipalPermission extends AbstractNameOnlyPermission<RunAsPrincipalPermission> {

    private static final long serialVersionUID = -3361334389433669815L;

    /**
```

```
     * Construct a new instance.
     *
     * @param name the principal name, or {@code *} for global run-as permissions
     */
    public RunAsPrincipalPermission(final String name) {
        super(name);
    }

    /**
     * Construct a new instance.
     *
     * @param name the principal name, or {@code *} for global run-as permissions
     * @param ignored the permission actions (ignored)
     */
    public RunAsPrincipalPermission(final String name, @SuppressWarnings("unused") final String ignored) {
        this(name);
    }

    public RunAsPrincipalPermission withName(final String name) {
        return new RunAsPrincipalPermission(name);
    }
}
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*/

package org.wildfly.security.auth.permission;

import org.wildfly.security.permission.AbstractBooleanPermission;

/**
* Establish whether the current identity has permission to complete an authentication ("log in").
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
```

```
*/
public final class LoginPermission extends AbstractBooleanPermission<LoginPermission> {

  private static final long serialVersionUID = - 5776174571770792690L;

  /**
   * Construct a new instance.
   */
  public LoginPermission() {
  }

  /**
   * Construct a new instance.
   *
   * @param name ignored
   */
  public LoginPermission(@SuppressWarnings("unused") final String name) {
  }

  /**
   * Construct a new instance.
   *
   * @param name ignored
   * @param actions ignored
   */
  public LoginPermission(@SuppressWarnings("unused") final String name, @SuppressWarnings("unused") final
String actions) {
  }

  private static final LoginPermission INSTANCE = new LoginPermission();

  /**
   * Get the instance of this class.
   *
   * @return the instance of this class
   */
  public static LoginPermission getInstance() {
     return INSTANCE;
  }
}
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import static org.wildfly.security.manager._private.SecurityMessages.permission;

import java.util.Arrays;
import java.util.EnumSet;
import java.util.Iterator;

/**
* A helper class for defining permissions which use a finite list of actions.  Define custom permissions using
* an {@code enum} of actions, where the string representation (via {@code toString()}) of each enum is one
possible
* action name.  Typically the {@code enum} should be non-public, and the constant names should be lowercase.  If
* an action name contains a character which is not a valid Java identifier, then the {@code toString()} method of
* such constants should be overridden to report the correct string.  The actions may be stored on the permission as
* an {@code EnumSet}, an {@code int}, or a {@code long}.  The field should be marked {@code transient}, and
* the actions represented by a (possibly synthetic) field of type {@code String} which uses the canonical
representation
* of the actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*
* @deprecated Use one of the abstract permission classes like {@link AbstractActionSetPermission} instead.
*/
@Deprecated
public final class PermissionActions {

  private PermissionActions() {
  }

  static final class TrieNode<E> {
     private static final char[] C_EMPTY = new char[0];
     private static final TrieNode[] T_EMPTY = new TrieNode[0];

     private E result;
     private char[] matches = C_EMPTY;
```

```
    @SuppressWarnings("unchecked")
    private TrieNode<E>[] children = T_EMPTY;

    void put(String s, int idx, E value) {
      if (idx == s.length()) {
        result = value;
        return;
      }
      char c = s.charAt(idx);
      final int i = Arrays.binarySearch(matches, c);
      if (i < 0) {
        // copy and add
        final int oldLength = matches.length;
        final char[] newMatches = Arrays.copyOf(matches, oldLength + 1);
        final TrieNode<E>[] newChildren = Arrays.copyOf(children, oldLength + 1);
        // i is the negated insertion index
        final int insertIndex = -i - 1;
        System.arraycopy(newMatches, insertIndex, newMatches, insertIndex + 1, oldLength - insertIndex);
        System.arraycopy(newChildren, insertIndex, newChildren, insertIndex + 1, oldLength - insertIndex);
        newMatches[insertIndex] = c;
        final TrieNode<E> newNode = new TrieNode<>();
        newChildren[insertIndex] = newNode;
        matches = newMatches;
        children = newChildren;
        newNode.put(s, idx + 1, value);
      } else {
        children[i].put(s, idx + 1, value);
      }
    }

    E get(String s, int idx, int end) {
      if (idx == end) {
        return result;
      }
      final char c = s.charAt(idx);
      final int i = Arrays.binarySearch(matches, c);
      if (i < 0) {
        return null;
      }
      return children[i].get(s, idx + 1, end);
    }
  }

  static final class Info<E> {
    final TrieNode<E> root;
    final E[] constants;

    Info(final TrieNode<E> root, final E[] constants) {
```

```
            this.root = root;
            this.constants = constants;
        }
    }

    private static final ClassValue<Info<?>> storedInfo = new ClassValue<Info<?>>() {
        protected Info<?> computeValue(final Class<?> type) {
            return computeReal(type);
        }

        private <E> Info<E> computeReal(final Class<E> type) {
            final TrieNode<E> root = new TrieNode<>();
            final E[] enumConstants = type.getEnumConstants();
            for (E e : enumConstants) {
                root.put(e.toString(), 0, e);
            }
            return new Info<>(root, type.getEnumConstants());
        }
    };

    interface MatchAction<E extends Enum<E>> {
        void matched(E item);

        void matchedAll(Class<E> type);
    }

    static class SetMatchAction<E extends Enum<E>> implements MatchAction<E> {
        private EnumSet<E> set;

        SetMatchAction(final EnumSet<E> set) {
            this.set = set;
        }

        public void matched(final E item) {
            set.add(item);
        }

        public void matchedAll(final Class<E> type) {
            set = EnumSet.allOf(type);
        }

        public EnumSet<E> getSet() {
            return set;
        }
    }

    static class IntMatchAction<E extends Enum<E>> implements MatchAction<E> {
        private int result;
```

```
    IntMatchAction() {
    }

    public void matched(final E item) {
        result |= 1 << item.ordinal();
    }

    public void matchedAll(final Class<E> type) {
        result |= (1 << storedInfo.get(type).constants.length) - 1;
    }

    public int getResult() {
        return result;
    }
}

static class LongMatchAction<E extends Enum<E>> implements MatchAction<E> {
    private long result;

    LongMatchAction() {
    }

    public void matched(final E item) {
        result |= 1L << item.ordinal();
    }

    public void matchedAll(final Class<E> type) {
        result |= (1L << storedInfo.get(type).constants.length) - 1;
    }

    public long getResult() {
        return result;
    }
}

/**
 * Parse an action string using the given action type to an {@code EnumSet}.
 *
 * @param actionType the action {@code enum} type class
 * @param actionString the string to parse
 * @param <E> the action {@code enum} type
 *
 * @return the set of actions from the string
 *
 * @throws IllegalArgumentException if the string contained an invalid action
 */
public static <E extends Enum<E>> EnumSet<E> parseActionStringToSet(Class<E> actionType, String
```

```
actionString) throws IllegalArgumentException {
        Assert.checkNotNullParam("actionType", actionType);
        Assert.checkNotNullParam("actionString", actionString);
        final SetMatchAction<E> matchAction = new SetMatchAction<>(EnumSet.noneOf(actionType));
        doParse(actionType, actionString, matchAction);
        return matchAction.getSet();
    }

    /**
     * Parse an action string using the given action type to an {@code int}.  The given {@code enum} type must have
     * 32 or fewer constant values.
     *
     * @param actionType the action {@code enum} type class
     * @param actionString the string to parse
     * @param <E> the action {@code enum} type
     *
     * @return the set of actions from the string
     *
     * @throws IllegalArgumentException if the string contained an invalid action
     */
    public static <E extends Enum<E>> int parseActionStringToInt(Class<E> actionType, String actionString) throws
IllegalArgumentException {
        Assert.checkNotNullParam("actionType", actionType);
        Assert.checkNotNullParam("actionString", actionString);
        final IntMatchAction<E> matchAction = new IntMatchAction<>();
        doParse(actionType, actionString, matchAction);
        return matchAction.getResult();
    }

    /**
     * Parse an action string using the given action type to a {@code long}.  The given {@code enum} type must have
     * 64 or fewer constant values.
     *
     * @param actionType the action {@code enum} type class
     * @param actionString the string to parse
     * @param <E> the action {@code enum} type
     *
     * @return the set of actions from the string
     *
     * @throws IllegalArgumentException if the string contained an invalid action
     */
    public static <E extends Enum<E>> long parseActionStringToLong(Class<E> actionType, String actionString)
throws IllegalArgumentException {
        Assert.checkNotNullParam("actionType", actionType);
        Assert.checkNotNullParam("actionString", actionString);
        final LongMatchAction<E> matchAction = new LongMatchAction<>();
        doParse(actionType, actionString, matchAction);
        return matchAction.getResult();
```

```
    }

    private static <E extends Enum<E>> void doParse(final Class<E> actionType, final String actionString, final
MatchAction<E> matchAction) {
        @SuppressWarnings("unchecked")
        final Info<E> info = (Info<E>) storedInfo.get(actionType);
        final TrieNode<E> rootNode = info.root;
        // begin parse
        char c;
        final int length = actionString.length();
        int i = 0;
        L0: for (;;) {
            if (i == length) {
                // OK
                break L0;
            }
            c = actionString.charAt(i);
            if (Character.isWhitespace(c)) {
                i ++;
                continue L0;
            }
            if (c == ',') {
                // hmm, empty segment; ignore it
                i ++;
                continue L0;
            }
            if (c == '*') {
                // potential star
                matchAction.matchedAll(actionType);
                for (;;) {
                    i ++;
                    if (i == length) {
                        // done
                        break L0;
                    }
                    c = actionString.charAt(i);
                    if (c == ',') {
                        // pointless, but go on
                        i ++;
                        continue L0;
                    }
                    if (! Character.isWhitespace(c)) {
                        throw permission.unexpectedActionCharacter(c, i, actionString);
                    }
                }
                // not reachable
            }
            // else it's a potentially valid character
```

```
            int start = i;
            for (;;) {
                i++;
                c = i < length ? actionString.charAt(i) : 0;
                if (i == length || Character.isWhitespace(c) || c == ',') {
                    // action string ends here
                    final E action = rootNode.get(actionString, start, i);
                    if (action == null) {
                        throw permission.invalidAction(actionString.substring(start, i), start, actionString);
                    }
                    matchAction.matched(action);
                    if (i == length) {
                        // done
                        break L0;
                    }
                    while (Character.isWhitespace(c)) {
                        i++;
                        if (i == length) {
                            // done
                            break L0;
                        }
                        c = actionString.charAt(i);
                    }
                    if (c != ',') {
                        throw permission.unexpectedActionCharacter(c, i, actionString);
                    }
                    i ++;
                    continue L0;
                }
            }
            // not reachable
        }
    }

    /**
     * Get the canonical action string representation for the given action set.
     *
     * @param set the action set
     * @param <E> the action type
     * @return the canonical representation
     */
    public static <E extends Enum<E>> String getCanonicalActionString(EnumSet<E> set) {
        if (set == null || set.isEmpty()) return "";
        final StringBuilder b = new StringBuilder();
        getCanonicalActionString(set, b);
        return b.toString();
    }
```

```
/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(EnumSet<E> set, StringBuilder b) {
    if (set == null || set.isEmpty()) return;
    final Iterator<E> iterator = set.iterator();
    if (iterator.hasNext()) {
        E e = iterator.next();
        b.append(e.toString());
        while (iterator.hasNext()) {
            e = iterator.next();
            b.append(',');
            b.append(e.toString());
        }
    }
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param type the action {@code enum} type class
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, int set) {
    if (set == 0) return "";
    final StringBuilder b = new StringBuilder();
    getCanonicalActionString(type, set, b);
    return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param type the action {@code enum} type class
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, int set, StringBuilder b) {
    if (set == 0) return;
    @SuppressWarnings("unchecked")
    final E[] constants = (E[]) storedInfo.get(type).constants;
```

```
    int bit = Integer.lowestOneBit(set);
    E e = constants[Integer.numberOfTrailingZeros(bit)];
    b.append(e.toString());
    set &= ~bit;
    while (set != 0) {
        bit = Integer.lowestOneBit(set);
        e = constants[Integer.numberOfTrailingZeros(bit)];
        b.append(',').append(e.toString());
        set &= ~bit;
    }
}

/**
 * Get the canonical action string representation for the given action set.
 *
 * @param type the action {@code enum} type class
 * @param set the action set
 * @param <E> the action type
 * @return the canonical representation
 */
public static <E extends Enum<E>> String getCanonicalActionString(Class<E> type, long set) {
    if (set == 0) return "";
    final StringBuilder b = new StringBuilder();
    getCanonicalActionString(type, set, b);
    return b.toString();
}

/**
 * Get the canonical action string representation for the given action set, appending it to the given string builder.
 *
 * @param type the action {@code enum} type class
 * @param set the action set
 * @param b the string builder
 * @param <E> the action type
 */
public static <E extends Enum<E>> void getCanonicalActionString(Class<E> type, long set, StringBuilder b) {
    if (set == 0) return;
    @SuppressWarnings("unchecked")
    final E[] constants = (E[]) storedInfo.get(type).constants;
    long bit = Long.lowestOneBit(set);
    E e = constants[Long.numberOfTrailingZeros(bit)];
    b.append(e.toString());
    set &= ~bit;
    while (set != 0) {
        bit = Long.lowestOneBit(set);
        e = constants[Long.numberOfTrailingZeros(bit)];
        b.append(',').append(e.toString());
        set &= ~bit;
```

```
    }
  }
}
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;

/**
* A permission collection for permissions with a finite set of names, which is based on a simple bit set.
* In this type of collection, each bit represents a unique permission of a given name.  This type is not suitable for
* permissions with actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class NameSetPermissionCollection extends AbstractPermissionCollection {
  private static final long serialVersionUID = - 9191397492173027470L;
  private final StringEnumeration nameEnumeration;

  /**
   * Construct a new instance.  The name enumeration is pulled from the source permission object.
   *
   * @param sourcePermission the source permission object (must not be {@code null})
   * @return the permission collection
   */
  public static AbstractPermissionCollection newInstance(final AbstractNameSetOnlyPermission<?>
sourcePermission) {
      return newInstance(sourcePermission, sourcePermission.getNameEnumeration());
  }
```

```
    /**
     * Construct a new instance.
     *
     * @param sourcePermission the source permission object (must not be {@code null})
     * @param nameEnumeration the name enumeration for this permission type (must not be {@code null})
     * @return the permission collection
     */
    public static AbstractPermissionCollection newInstance(final AbstractPermission<?> sourcePermission, final
StringEnumeration nameEnumeration) {
        Assert.checkNotNullParam("sourcePermission", sourcePermission);
        Assert.checkNotNullParam("nameEnumeration", nameEnumeration);
        final int size = nameEnumeration.size();
        if (size <= 32) {
            return new IntNameSetPermissionCollection(sourcePermission, nameEnumeration);
        } else if (size <= 64) {
            return new LongNameSetPermissionCollection(sourcePermission, nameEnumeration);
        } else {
            // TODO: add GiantNameSetPermissionCollection which uses AtomicIntegerArray
            throw Assert.unsupported();
        }
    }

    NameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission);
        this.nameEnumeration = nameEnumeration;
    }

    StringEnumeration getNameEnumeration() {
        return nameEnumeration;
    }
}
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```

```
*/

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;

final class SerializedPermission implements Serializable {
  private static final long serialVersionUID = 897239118282921196L;

  private final Class<? extends Permission> c;
  private final String n;
  private final String a;

  SerializedPermission(final Class<? extends Permission> permissionClass, final String name, final String action) {
     this.c = permissionClass;
     this.n = name;
     this.a = action;
  }

  Object readResolve() {
     return PermissionUtil.createPermission(c, n, a);
  }
}
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*/

package org.wildfly.security.permission;

import java.io.Serializable;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
```

```
final class SerializedPermissionCollection implements Serializable {
  private static final long serialVersionUID = - 8745428905589938281L;

  private final Permission s;
  private final Permission[] p;
  private final boolean r;

  SerializedPermissionCollection(final AbstractPermissionCollection collection) {
     s = collection.getSourcePermission();
     final ArrayList<Permission> list = new ArrayList<>(collection.size());
     collection.forEach(list::add);
     p = list.toArray(PermissionUtil.NO_PERMISSIONS);
     r = collection.isReadOnly();
  }

  Object readResolve() {
     final PermissionCollection collection = s.newPermissionCollection();
     for (Permission permission : p) {
        collection.add(permission);
     }
     if (r) collection.setReadOnly();
     return collection;
  }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
```

```
import java.util.Iterator;
import java.util.Set;

/**
* A permission collection type which either does or does not hold its instance.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class BooleanPermissionCollection extends AbstractPermissionCollection {
  private volatile boolean added;

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission for this collection (must not be {@code null})
   */
  public BooleanPermissionCollection(final AbstractPermission<?> sourcePermission) {
     super(sourcePermission);
  }

  public int size() {
     return added ? 1 : 0;
  }

  public Iterator<Permission> iterator() {
     return added ? getSingletonCollection().iterator() : Collections.emptyIterator();
  }

  public Enumeration<Permission> elements() {
     return added ? Collections.enumeration(getSingletonCollection()) : Collections.emptyEnumeration();
  }

  private Set<Permission> getSingletonCollection() {
     return Collections.singleton(getSourcePermission());
  }

  protected void doAdd(final AbstractPermission<?> permission) {
     added = true;
  }

  public boolean implies(final Permission permission) {
     return added && permission.getClass() == getSourcePermission().getClass();
  }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.security._private.ElytronMessages;

/**
* An abstract base class for any permission.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractPermission<This extends AbstractPermission<This>> extends Permission implements
PermissionVerifier {
  /**
   * Construct a new instance.
   *
   * @param name the permission name
   */
  protected AbstractPermission(final String name) {
     super(name);
  }

  /**
   * Determine whether this permission implies another permission.
   *
   * @param permission the other permission
   * @return {@code true} if this permission implies the other; {@code false} otherwise
   */
  @SuppressWarnings("unchecked")
  public final boolean implies(Permission permission) {
     return permission != null && getClass() == permission.getClass() && implies((This) permission);
  }

  /**
```

```
     * Determine whether this permission implies another permission.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public abstract boolean implies(This permission);

    /**
     * Determine whether this permission object is equal to another object.
     *
     * @param obj the object to compare to
     * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean equals(final Object obj) {
        return obj != null && obj.getClass() == getClass() && equals((This) obj);
    }

    /**
     * Determine whether this permission object is equal to another object of this permission type.
     *
     * @param other the permission to compare to
     * @return {@code true} if the object is a permission equal to this one; {@code false} otherwise
     */
    public abstract boolean equals(This other);

    /**
     * Get the hash code of this permission.  The result must be consistent with the defined {@link
#equals(AbstractPermission)}
     * result.
     *
     * @return the hash code of this permission
     */
    public abstract int hashCode();

    /**
     * Get the actions string.  The default implementation always returns an empty string.
     *
     * @return the actions string (not {@code null})
     */
    public String getActions() {
        return "";
    }

    /**
     * Get an empty permission collection which is capable of holding instances of this permission type.
     * <p>
     * The default implementation returns a {@link SimplePermissionCollection}.
```

```
     *
     * @return the permission collection to use
     */
    public AbstractPermissionCollection newPermissionCollection() {
        return new SimplePermissionCollection(this);
    }

    /**
     * Check to ensure that the given action string is empty or {@code null}; otherwise, throw an exception.
     *
     * @param actions the actions string
     * @throws IllegalArgumentException if the actions string is not empty
     */
    protected static void requireEmptyActions(final String actions) throws IllegalArgumentException {
        if (actions != null && ! actions.isEmpty()) {
            throw ElytronMessages.log.expectedEmptyActions(actions);
        }
    }

    final Object writeReplace() {
        return new SerializedPermission(getClass(), getName(), getActions());
    }
}
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*/

package org.wildfly.security.permission;

import org.wildfly.security.util.StringEnumeration;

/**
* An actionless permission with a finite, fixed set of possible names.
*
```

```
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractNameSetOnlyPermission<This extends AbstractNameSetOnlyPermission<This>>
extends AbstractNameOnlyPermission<This> {

  private final StringEnumeration nameEnumeration;

  /**
   * Construct a new instance.
   *
   * @param name the name of this permission
   * @param nameEnumeration the set of valid names for this permission type
   */
  protected AbstractNameSetOnlyPermission(final String name, final StringEnumeration nameEnumeration) {
     super("*".equals(name) ? "*" : nameEnumeration.canonicalName(name));
     this.nameEnumeration = nameEnumeration;
  }

  StringEnumeration getNameEnumeration() {
     return nameEnumeration;
  }

  public AbstractPermissionCollection newPermissionCollection() {
     return NameSetPermissionCollection.newInstance(this, nameEnumeration);
  }

  public final boolean nameEquals(final String name) {
     return super.nameEquals(name);
  }

  public final boolean impliesName(final String name) {
     return super.impliesName(name);
  }

  protected final int nameHashCode() {
     return nameEnumeration.indexOf(getName());
  }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicLong;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class LongNameSetPermissionCollection extends NameSetPermissionCollection {

  private final AtomicLong bitSet = new AtomicLong();

  LongNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
    super(sourcePermission, nameEnumeration);
  }

  private Permission permissionFor(int id) {
    return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
  }

  protected void doAdd(final AbstractPermission<?> permission) {
    long setBits = getBitsForName(permission);
    final AtomicLong bitSet = this.bitSet;
    long oldVal;
    do {
      oldVal = bitSet.get();
      if ((oldVal & setBits) == setBits) {
        return;
      }
    } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
  }

  public boolean implies(final Permission permission) {
    if (permission.getClass() != getSourcePermission().getClass()) {
      return false;
    }
    long testBits = getBitsForName(permission);
```

```
    return (bitSet.get() & testBits) == testBits;
}

public int size() {
    final int size = Long.bitCount(bitSet.get());
    return size == getNameEnumeration().size() ? 1 : size;
}

public EnumerationIterator<Permission> iterator() {
    return new Iter(bitSet.get());
}

public EnumerationIterator<Permission> elements() {
    return iterator();
}

private long getBitsForName(final Permission permission) {
    final long bits;
    final String name = permission.getName();
    final StringEnumeration nameEnumeration = getNameEnumeration();
    if ("*".equals(name)) {
        // add all names
        bits = (1L << nameEnumeration.size()) - 1;
    } else {
        bits = 1L << nameEnumeration.indexOf(name);
    }
    return bits;
}

private class Iter implements EnumerationIterator<Permission> {
    private long bits;

    Iter(final long bits) {
        this.bits = bits;
    }

    public boolean hasMoreElements() {
        return bits != 0;
    }

    public Permission nextElement() {
        final long bits = this.bits;
        if (bits == 0) throw new NoSuchElementException();
        if (Long.bitCount(bits) == getNameEnumeration().size()) {
            this.bits = 0;
            return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
        }
        long bit = Long.lowestOneBit(bits);
```

```
            this.bits = bits & ~bit;
            return permissionFor(Long.numberOfTrailingZeros(bit));
        }

        public boolean hasNext() {
            return hasMoreElements();
        }

        public Permission next() {
            return nextElement();
        }
    }

}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.NoSuchElementException;
import java.util.concurrent.atomic.AtomicInteger;

import org.wildfly.security.util.EnumerationIterator;
import org.wildfly.security.util.StringEnumeration;

final class IntNameSetPermissionCollection extends NameSetPermissionCollection {

    private final AtomicInteger bitSet = new AtomicInteger();

    IntNameSetPermissionCollection(final AbstractPermission<?> sourcePermission, final StringEnumeration
nameEnumeration) {
        super(sourcePermission, nameEnumeration);
```

```
    }

    private Permission permissionFor(int id) {
        return
((AbstractNamedPermission<?>)getSourcePermission()).withName(getNameEnumeration().nameOf(id));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        int setBits= getBitsForName(permission);
        final AtomicInteger bitSet = this.bitSet;
        int oldVal;
        do {
            oldVal = bitSet.get();
            if ((oldVal & setBits) == setBits) {
                return;
            }
        } while (! bitSet.compareAndSet(oldVal, oldVal | setBits));
    }

    public boolean implies(final Permission permission) {
        if (permission.getClass() != getSourcePermission().getClass()) {
            return false;
        }
        long testBits = getBitsForName(permission);
        return (bitSet.get() & testBits) == testBits;
    }

    public int size() {
        final int size = Integer.bitCount(bitSet.get());
        return size == getNameEnumeration().size() ? 1 : size;
    }

    public EnumerationIterator<Permission> iterator() {
        return new Iter(bitSet.get());
    }

    public EnumerationIterator<Permission> elements() {
        return iterator();
    }

    private int getBitsForName(final Permission permission) {
        final int bits;
        final String name = permission.getName();
        final StringEnumeration nameEnumeration = getNameEnumeration();
        if ("*".equals(name)) {
            // add all names
            bits = (1 << nameEnumeration.size()) - 1;
        } else {
```

```
            bits = 1 << nameEnumeration.indexOf(name);
        }
        return bits;
    }

    private class Iter implements EnumerationIterator<Permission> {
        private int bits;

        Iter(final int bits) {
            this.bits = bits;
        }

        public boolean hasMoreElements() {
            return bits != 0;
        }

        public Permission nextElement() {
            final int bits = this.bits;
            if (bits == 0) throw new NoSuchElementException();
            if (Integer.bitCount(bits) == getNameEnumeration().size()) {
                this.bits = 0;
                return ((AbstractNamedPermission<?>) getSourcePermission()).withName("*");
            }
            int bit = Integer.lowestOneBit(bits);
            this.bits = bits & ~bit;
            return permissionFor(Integer.numberOfTrailingZeros(bit));
        }

        public boolean hasNext() {
            return hasMoreElements();
        }

        public Permission next() {
            return nextElement();
        }
    }

}
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*/

package org.wildfly.security.permission;

/**
* A base class for nameless and actionless permissions that are either granted or not granted.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractBooleanPermission<This extends AbstractBooleanPermission<This>> extends
AbstractPermission<This> {
  /**
   * Construct a new instance.
   */
  protected AbstractBooleanPermission() {
     super("");
  }

  public boolean implies(final This permission) {
     return permission != null;
  }

  public boolean equals(final This other) {
     return other != null;
  }

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

  public AbstractPermissionCollection newPermissionCollection() {
     return new BooleanPermissionCollection(this);
  }
}
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*/

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
* Base class for useful permission collections.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractPermissionCollection extends PermissionCollection implements Iterable<Permission>,
PermissionVerifier {
  private static final long serialVersionUID = - 7532778883140764647L;

  private final AbstractPermission<?> sourcePermission;

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission for this collection (must not be {@code null})
   */
  protected AbstractPermissionCollection(final AbstractPermission<?> sourcePermission) {
     Assert.checkNotNullParam("sourcePermission", sourcePermission);
     this.sourcePermission = sourcePermission;
  }

  /**
   * Get the size of this permission collection.
   *
   * @return the size of this permission collection
   */
  public abstract int size();
```

```
    /**
     * Iterate over this permission collection.
     *
     * @return the iterator (not {@code null})
     */
    public abstract Iterator<Permission> iterator();

    /**
     * Iterate over this permission collection.
     *
     * @return the iterator (not {@code null})
     */
    public abstract Enumeration<Permission> elements();

    /**
     * Add an item to this collection.  The permission class must be the same as the source permission's class.
     *
     * @param permission the permission to add (must not be {@code null})
     */
    public final void add(final Permission permission) {
        Assert.checkNotNullParam("permission", permission);
        if (isReadOnly()) throw ElytronMessages.log.readOnlyPermissionCollection();
        @SuppressWarnings("rawtypes")
        Class<? extends AbstractPermission> expected =
sourcePermission.getClass().asSubclass(AbstractPermission.class);
        if (expected != permission.getClass()) {
            throw ElytronMessages.log.invalidPermissionType(expected, permission);
        }
        doAdd(expected.cast(permission));
    }

    /**
     * Perform the work of adding a permission.  The permission is guaranteed to be of the correct type and the
collection
     * is guaranteed to have been writable at the time the {@link #add(Permission)} method was called.
     *
     * @param permission the non-{@code null} permission
     */
    protected abstract void doAdd(final AbstractPermission<?> permission);

    final AbstractPermission<?> getSourcePermission() {
        return sourcePermission;
    }

    final Object writeReplace() {
        return new SerializedPermissionCollection(this);
    }
}
```

```
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
* The permission collection type for {@link NoPermission}.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
final class NoPermissionCollection extends AbstractPermissionCollection {
  private static final long serialVersionUID = - 8826282614161412469L;

  private static NoPermissionCollection INSTANCE = new NoPermissionCollection();

  NoPermissionCollection() {
     super(NoPermission.getInstance());
  }

  static NoPermissionCollection getInstance() {
     return INSTANCE;
  }

  protected void doAdd(final AbstractPermission<?> permission) {
     // no action
  }

  public boolean implies(final Permission permission) {
```

```
        return false;
    }

    public Enumeration<Permission> elements() {
        return Collections.emptyEnumeration();
    }

    public Iterator<Permission> iterator() {
        return Collections.emptyIterator();
    }

    public int size() {
        return 0;
    }

    Object readResolve() {
        return INSTANCE;
    }

    public boolean equals(final Object obj) {
        return obj instanceof NoPermissionCollection;
    }

    public int hashCode() {
        return getClass().hashCode();
    }
}
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*/

package org.wildfly.security.permission;

/**
```

```
* A permission which implies nothing, not even itself.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class NoPermission extends AbstractPermission<NoPermission> {
  private static final long serialVersionUID = 2339781690941885693L;

  private static final NoPermission INSTANCE = new NoPermission();

  /**
   * Construct a new instance.
   */
  public NoPermission() {
     super("<no permissions>");
  }

  /**
   * Construct a new instance.  The name parameter is ignored.
   *
   * @param ignored ignored
   */
  public NoPermission(final String ignored) {
     this();
  }

  /**
   * Construct a new instance.  The name and actions parameters are ignored.
   *
   * @param ignored1 ignored
   * @param ignored2 ignored
   */
  public NoPermission(final String ignored1, final String ignored2) {
     this();
  }

  /**
   * Get the no-permission instance.
   *
   * @return the no-permission instance (not {@code null})
   */
  public static NoPermission getInstance() {
     return INSTANCE;
  }

  /**
   * Always returns {@code false}.
   *
   * @param permission ignored
```

```
     * @return {@code false}
     */
    public boolean implies(final NoPermission permission) {
        return false;
    }

    /**
     * Always returns {@code true} if the argument is not {@code null}.
     *
     * @param other the permission to compare to
     * @return {@code true} if {@code other} is not {@code null}; {@code false} otherwise
     */
    public boolean equals(final NoPermission other) {
        return other != null;
    }

    /**
     * Get the constant hash code.
     *
     * @return the constant hash code
     */
    public int hashCode() {
        return getClass().hashCode();
    }

    public AbstractPermissionCollection newPermissionCollection() {
        return NoPermissionCollection.getInstance();
    }
}
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*/

package org.wildfly.security.permission;
```

```
import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security.util.ArrayIterator;

/**
* A trivially simple permission collection, suitable as a default for most permission types (though probably not as efficient
* as a specialized type in many cases).
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class SimplePermissionCollection extends AbstractPermissionCollection {

  private static final long serialVersionUID = - 9157630531211570679L;

  private final AtomicReference<Permission[]> permissionsRef = new AtomicReference<>(PermissionUtil.NO_PERMISSIONS);

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission for this collection (must not be {@code null})
   */
  public SimplePermissionCollection(final AbstractPermission<?> sourcePermission) {
     super(sourcePermission);
  }

  public int size() {
     return permissionsRef.get().length;
  }

  protected void doAdd(final AbstractPermission<?> permission) {
     Permission[] oldVal, readVal, newVal;
     int count;
     final AtomicReference<Permission[]> permissionsRef = this.permissionsRef;
     do {
        readVal = permissionsRef.get();
        do {
           count = 0;
           oldVal = readVal;
           for (Permission test : oldVal) {
              if (test.implies(permission)) {
                 return;
              }
```

```
                if (! permission.implies(test)) {
                    // prepare to skip any permissions that are obviated by this one
                    count ++;
                }
            }
            // see if it's still what we expect before we commit to the possibly expensive update...
            readVal = permissionsRef.get();
        } while (readVal != oldVal);
        newVal = new Permission[count + 1];
        int i = 0;
        for (Permission test : oldVal) {
            if (! permission.implies(test)) {
                newVal[i++] = test;
            }
        }
        newVal[i] = permission;
    } while (! permissionsRef.compareAndSet(oldVal, newVal));
  }

  public boolean implies(final Permission permission) {
    for (Permission test : permissionsRef.get()) {
        if (test.implies(permission)) {
            return true;
        }
    }
    return false;
  }

  public Iterator<Permission> iterator() {
    return new ArrayIterator<Permission>(permissionsRef.get());
  }

  public Enumeration<Permission> elements() {
    return new ArrayIterator<Permission>(permissionsRef.get());
  }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Arrays;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.ConcurrentHashMap;

/**
* A permission collection for actionless permissions which are organized by name.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class ByNamePermissionCollection extends AbstractPermissionCollection {
  private final ConcurrentHashMap<String, Permission> byName = new ConcurrentHashMap<>();
  private volatile Permission all;

  /**
   * The source permission used to construct this collection.
   *
   * @param sourcePermission the source permission (must not be {@code null})
   */
  public ByNamePermissionCollection(final AbstractPermission<?> sourcePermission) {
     super(sourcePermission);
  }

  public int size() {
     return all != null ? 1 : byName.size();
  }

  public Iterator<Permission> iterator() {
     return getIterablePermissions().iterator();
  }

  public Enumeration<Permission> elements() {
     return Collections.enumeration(getIterablePermissions());
  }

  private Collection<Permission> getIterablePermissions() {
     return all != null ? Collections.singleton(all) :
```

```
Arrays.asList(byName.values().toArray(PermissionUtil.NO_PERMISSIONS));
    }

    protected void doAdd(final AbstractPermission<?> permission) {
        if (permission.getName().equals("*")) {
            all = permission;
            byName.clear();
        } else {
            byName.putIfAbsent(permission.getName(), permission);
        }
    }

    public boolean implies(final Permission permission) {
        if (permission == null || getSourcePermission().getClass() != permission.getClass()) {
            return false;
        }
        final Permission all = this.all;
        if (all != null) {
            return all.implies(permission);
        }
        final Permission ourPermission = byName.get(permission.getName());
        return ourPermission != null && ourPermission.implies(permission);
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;

import org.wildfly.common.Assert;
```

```
/**
* An abstract base class for named permissions that have actions, with useful API and implementation methods.  All
* the constraints described in {@link AbstractNamedPermission} apply.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractActionPermission<This extends AbstractActionPermission<This>> extends
AbstractNamedPermission<This> {
  private static final long serialVersionUID = - 1366777243917643233L;

  /**
   * Construct a new instance.
   *
   * @param name the permission name
   */
  protected AbstractActionPermission(final String name) {
    super(name);
  }

  /**
   * Determine whether this permission implies another permission.  Returns {@code true} if
   * both {@link #impliesActions(AbstractActionPermission)} and {@link
#impliesName(AbstractNamedPermission)}
   * return {@code true}.
   *
   * @param permission the other permission
   * @return {@code true} if this permission implies the other; {@code false} otherwise
   */
  public final boolean implies(final This permission) {
    return permission != null && impliesActions(permission) && impliesName(permission);
  }

  /**
   * Determine whether this permission is equal to another permission.  Returns {@code true} if
   * both {@link #actionsEquals(AbstractActionPermission)} and {@link
#nameEquals(AbstractNamedPermission)}
   * return {@code true}.
   *
   * @param permission the other permission
   * @return {@code true} if this permission implies the other; {@code false} otherwise
   */
  public final boolean equals(final This permission) {
    return super.equals(permission) && actionsEquals(permission);
  }

  public final int hashCode() {
    return super.hashCode() * 53 + actionsHashCode();
  }
```

```
/**
 * Determine whether the actions of this permission are equal to the given {@code actions}.
 *
 * @param actions the actions string (must not be {@code null})
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(String actions);

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}.  If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
@SuppressWarnings("unchecked")
public final boolean actionsEquals(Permission permission) {
    return permission != null && permission.getClass() == getClass() && actionsEquals((This) permission);
}

/**
 * Determine whether the actions of this permission are equal to the actions of given {@code permission}.
 *
 * @param permission the permission whose actions are to be compared
 * @return {@code true} if the actions are equal, {@code false} otherwise
 */
public abstract boolean actionsEquals(This permission);

/**
 * Get the actions hash code.
 *
 * @return the actions hash code
 */
protected abstract int actionsHashCode();

/**
 * Determine whether this permission's actions value implies the given actions value.
 *
 * @param actions the actions to test (must not be {@code null})
 * @return {@code true} if this permission implies the other; {@code false} otherwise
 */
public abstract boolean impliesActions(String actions);

/**
 * Determine whether this permission's actions value implies the actions of the given {@code permission}.  If
 * the permission is not of the same type as this permission, {@code false} is returned.
 *
```

```
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean impliesActions(Permission permission) {
        return permission != null && permission.getClass() == getClass() && impliesActions((This) permission);
    }

    /**
     * Determine whether this permission's actions value implies the actions of the given {@code permission}.
     *
     * @param permission the permission whose actions are to be compared
     * @return {@code true} if this permission implies the other; {@code false} otherwise
     */
    public abstract boolean impliesActions(This permission);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
     * from this permission and the actions from the given string.  The returned permission may or may not be a new
     * instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
     * from this permission and the actions from the given permission.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withActions(permission.getActions());
    }

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the actions from the given string.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
```

```
     */
    public abstract This withoutActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the actions from the given permission.  The returned permission may or may not be a new
     * instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withoutActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withActions(permission.getActions());
    }

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public abstract This withNewActions(String actionsString);

    /**
     * Get a permission which is identical to this one, but with new actions as given by {@code actionsString}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param permission the other permission (must not be {@code null})
     * @return the permission (not {@code null})
     */
    public This withNewActionsFrom(This permission) {
        Assert.checkNotNullParam("permission", permission);
        return withNewActions(permission.getActions());
    }
}
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package org.wildfly.security.permission;

import org.wildfly.security.util.StringEnumeration;

/**
* An abstract base class for permissions which use a bit set to represent actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractActionSetPermission<This extends AbstractActionSetPermission<This>> extends
AbstractActionPermission<This> {
  private static final long serialVersionUID = 897239118282921196L;

  private final StringEnumeration actionEnumeration;
  private final int actionBits;
  private String actions;

  /**
   * Construct a new instance.  The given bits are masked by {@link #actionsMask()} before being stored in the
object
   * instance.
   *
   * @param name the permission name
   * @param actionBits the permission action bits
   * @param actionEnumeration the permission actions enumeration
   */
  protected AbstractActionSetPermission(final String name, final int actionBits, final StringEnumeration
actionEnumeration) {
      super(name);
      this.actionEnumeration = actionEnumeration;
      this.actionBits = actionBits & actionsMask();
      if (actionBits == actionsMask()) actions = "*";
  }

  /**
   * Construct a new instance.
   *
   * @param name the permission name
   * @param actions the permission actions string
   * @param actionEnumeration the permission actions enumeration
```

```
     */
    protected AbstractActionSetPermission(final String name, final String actions, final StringEnumeration
actionEnumeration) {
        super(name);
        this.actionEnumeration = actionEnumeration;
        final int actionBits = parseActions(actions);
        this.actionBits = actionBits & actionsMask();
        if (actionBits == actionsMask()) this.actions = "*";
    }

    /**
     * Get the action bits of this permission.
     *
     * @return the action bits
     */
    public final int getActionBits() {
        return actionBits;
    }

    public final boolean actionsEquals(final This permission) {
        return permission != null && actionBits == permission.getActionBits();
    }

    public final boolean impliesActions(final This permission) {
        return permission != null && isSet(actionBits, permission.getActionBits());
    }

    public final boolean impliesActions(final String actions) {
        return impliesActionBits(parseActions(actions));
    }

    /**
     * Determine whether this permission's actions value implies the given action bits.
     *
     * @param actionBits the actions bits to test
     * @return {@code true} if this permission implies the given action bits; {@code false} otherwise
     */
    public final boolean impliesActionBits(final int actionBits) {
        return isSet(this.actionBits, actionBits & actionsMask());
    }

    private int actionsMask() {
        return (1 << actionEnumeration.size()) - 1;
    }

    private int getActionBit(final String actionName) throws IllegalArgumentException {
        return 1 << actionEnumeration.indexOf(actionName);
    }
```

```
    private String getActionName(final int bit) throws IllegalArgumentException {
        return actionEnumeration.nameOf(Integer.numberOfTrailingZeros(bit));
    }

    protected final int actionsHashCode() {
        return actionBits;
    }

    /**
     * Get the actions string.  The string is computed the first time this method is called, and cached thereafter.
     *
     * @return the actions string (not {@code null})
     */
    public final String getActions() {
        final String actions = this.actions;
        if (actions != null) {
            return actions;
        }
        return this.actions = PermissionUtil.toActionsString(actionBits, this::getActionName);
    }

    /**
     * Parse the actions string into a bit set.
     *
     * @param actionsString the actions string
     * @return the bit set
     * @throws IllegalArgumentException if the actions string contained an invalid name or invalid syntax
     */
    public final int parseActions(final String actionsString) throws IllegalArgumentException {
        return PermissionUtil.parseActions(actionsString, this::getActionBit);
    }

    public final This withActions(final String actionsString) {
        return withActionBits(parseActions(actionsString));
    }

    public final This withActionsFrom(final This permission) {
        return withActionBits(permission.getActionBits());
    }

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the union of the actions
     * from this permission and the action bits from the given value.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
```

```
     * @return the permission (not {@code null})
     */
    public final This withActionBits(int actionBits) {
        return withNewActionBits(this.actionBits | actionBits & actionsMask());
    }

    public final This withoutActions(String actionsString) {
        return withoutActionBits(parseActions(actionsString));
    }

    public final This withoutActionsFrom(final This permission) {
        return withoutActionBits(permission.getActionBits());
    }

    /**
     * Get a permission which is identical to this one, but with new actions which consist of the actions
     * from this permission without the action bits from the given value.  The returned permission may or may not be a
new
     * instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
     * @return the permission (not {@code null})
     */
    public final This withoutActionBits(int actionBits) {
        return withNewActionBits(this.actionBits & ~actionBits);
    }

    public final This withNewActions(String actionsString) {
        return withNewActionBits(parseActions(actionsString));
    }

    public final This withNewActionsFrom(final This permission) {
        return withNewActionBits(permission.getActionBits());
    }

    /**
     * Get a permission which is identical to this one, but with new action bits as given by {@code actionBits}.
     * The returned permission may or may not be a new instance, and may be equal to this instance.
     *
     * @param actionBits the action bits
     * @return the permission (not {@code null})
     */
    @SuppressWarnings("unchecked")
    public final This withNewActionBits(int actionBits) {
        final int masked = actionBits & actionsMask();
        if (masked == this.actionBits) {
            return (This) this;
        } else {
```

```
            return constructWithActionBits(masked);
        }
    }

    /**
     * Construct or return a permission of this type with the same name as this one but with the given action bits.
     *
     * @param actionBits the action bits
     * @return the permission
     */
    protected abstract This constructWithActionBits(int actionBits);

    // private

    private static boolean isSet(final int bits, final int test) {
        return (bits & test) == test;
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.concurrent.atomic.AtomicReference;

import org.wildfly.security._private.ElytronMessages;
import org.wildfly.security.util.ArrayIterator;

/**
* A trivially simple permission collection, suitable as a default for most permission types (though probably not as
```

```
efficient
* as a specialized type in many cases).
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class SimpleActionBitsPermissionCollection extends AbstractPermissionCollection {

  private static final AbstractActionSetPermission<?>[] NO_PERMS = new AbstractActionSetPermission<?>[0];

  private final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = new
AtomicReference<>(NO_PERMS);

  /**
   * Construct a new instance.
   *
   * @param sourcePermission the source permission for this collection (must not be {@code null})
   */
  public SimpleActionBitsPermissionCollection(final AbstractActionSetPermission<?> sourcePermission) {
     super(sourcePermission);
  }

  public int size() {
     return permissionsRef.get().length;
  }

  @Override
  protected void doAdd(final AbstractPermission<?> permission) {
     if (permission instanceof AbstractActionSetPermission<?>) {
        doAdd((AbstractActionSetPermission<?>) permission);
     }
     throw ElytronMessages.log.invalidPermissionType(AbstractActionSetPermission.class, permission);
  }

  /**
   * Adds a permission.
   *
   * @param permission the non-{@code null} permission
   */
  protected void doAdd(final AbstractActionSetPermission<?> permission) {
     AbstractActionSetPermission<?>[] oldVal, readVal, newVal;
     int count;
     final AtomicReference<AbstractActionSetPermission<?>[]> permissionsRef = this.permissionsRef;
     do {
        readVal = permissionsRef.get();
        count = 0;
        do {
           oldVal = readVal;
           AbstractActionSetPermission<?> merged = permission;
```

```
            retry: for (;;) {
                for (AbstractActionSetPermission<?> test : oldVal) {
                    if (test.implies(merged)) {
                        // fail fast
                        return;
                    }
                    if (test.nameEquals(merged)) {
                        // combine
                        merged = merged.withActionBits(permission.getActionBits());
                        // test again with merged permission
                        count = 0;
                        continue retry;
                    }
                    if (! merged.implies(test)) {
                        // prepare to skip any permissions that are obviated by this one
                        count ++;
                    }
                }
                break;
            }
            // see if it's still what we expect before we commit to the possibly expensive update...
            readVal = permissionsRef.get();
        } while (readVal != oldVal);
        newVal = new AbstractActionSetPermission<?>[count + 1];
        int i = 0;
        for (AbstractActionSetPermission<?> test : oldVal) {
            if (! permission.implies(test)) {
                newVal[i++] = test;
            }
        }
        newVal[i] = permission;
    } while (! permissionsRef.compareAndSet(oldVal, newVal));
}

public boolean implies(final Permission permission) {
    for (Permission test : permissionsRef.get()) {
        if (test.implies(permission)) {
            return true;
        }
    }
    return false;
}

public Iterator<Permission> iterator() {
    return new ArrayIterator<Permission>(permissionsRef.get());
}

public Enumeration<Permission> elements() {
```

```
        return new ArrayIterator<Permission>(permissionsRef.get());
    }
}
/*
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

package org.wildfly.security.permission;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.AllPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Permissions;
import java.util.Arrays;
import java.util.Collection;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.function.BiConsumer;
import java.util.function.BiPredicate;
import java.util.function.Consumer;
import java.util.function.IntFunction;
import java.util.function.LongFunction;
import java.util.function.Predicate;
import java.util.function.ToIntFunction;
import java.util.function.ToLongFunction;

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
* General permission utility methods and constants.
```

```
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class PermissionUtil {

  private PermissionUtil() {
  }

  /**
   * A shared {@link AllPermission} instance.
   */
  public static final Permission ALL_PERMISSION = new AllPermission();

  /**
   * A read-only permission collection which implies {@link AllPermission}.
   */
  public static final PermissionCollection ALL_PERMISSIONS;

  /**
   * A permission collection which is empty.
   */
  public static final PermissionCollection EMPTY_PERMISSION_COLLECTION;

  /**
   * An array with no permissions in it.
   */
  public static final Permission[] NO_PERMISSIONS = new Permission[0];

  static {
     Permissions permissions = new Permissions();
     permissions.add(ALL_PERMISSION);
     permissions.setReadOnly();
     ALL_PERMISSIONS = permissions;
     permissions = new Permissions();
     permissions.setReadOnly();
     EMPTY_PERMISSION_COLLECTION = permissions;
  }

  /**
   * Parse an actions string, using the given function to map action strings to bits.
   *
   * @param actionsString the actions string (must not be {@code null})
   * @param function the mapping function (must not be {@code null})
   * @return the union of all the action bits
   * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
   */
  public static int parseActions(String actionsString, ToIntFunction<String> function) throws
```

```
IllegalArgumentException {
        Assert.checkNotNullParam("actionsString", actionsString);
        Assert.checkNotNullParam("function", function);
        int actions = 0;
        int pos = 0;
        int idx = actionsString.indexOf(',');
        for (;;) {
            String str;
            if (idx == -1) {
                str = actionsString.substring(pos, actionsString.length()).trim();
                if (! str.isEmpty()) actions |= function.applyAsInt(str);
                return actions;
            } else {
                str = actionsString.substring(pos, idx).trim();
                pos = idx + 1;
                if (! str.isEmpty()) actions |= function.applyAsInt(str);
                idx = actionsString.indexOf(',', pos);
            }
        }
    }

    /**
     * Parse an actions string, using the given function to map action strings to bits.
     *
     * @param actionsString the actions string (must not be {@code null})
     * @param function the mapping function (must not be {@code null})
     * @return the union of all the action bits
     * @throws IllegalArgumentException if {@code function} throws this exception (indicating an invalid action
string)
     */
    public static long parseActions(String actionsString, ToLongFunction<String> function) throws
IllegalArgumentException {
        Assert.checkNotNullParam("actionsString", actionsString);
        Assert.checkNotNullParam("function", function);
        long actions = 0;
        int pos = 0;
        int idx = actionsString.indexOf(',');
        for (;;) {
            String str;
            if (idx == -1) {
                str = actionsString.substring(pos, actionsString.length()).trim();
                if (! str.isEmpty()) actions |= function.applyAsLong(str);
                return actions;
            } else {
                str = actionsString.substring(pos, idx).trim();
                pos = idx + 1;
                if (! str.isEmpty()) actions |= function.applyAsLong(str);
                idx = actionsString.indexOf(',', pos);
```

```
        }
    }
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
 * the empty string {@code ""} is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be {@code null})
 * @return the actions string (not {@code null})
 */
public static String toActionsString(int actionBits, IntFunction<String> mappingFunction) {
    Assert.checkNotNullParam("mappingFunction", mappingFunction);
    final StringBuilder sb = new StringBuilder();
    if (actionBits == 0) return "";
    int lb = Integer.highestOneBit(actionBits);
    sb.append(mappingFunction.apply(lb));
    actionBits &= ~lb;
    while (actionBits != 0) {
        lb = Integer.highestOneBit(actionBits);
        sb.append(',').append(mappingFunction.apply(lb));
        actionBits &= ~lb;
    }
    return sb.toString();
}

/**
 * Deparse an action bit set, using the given function to map action bits to strings.  If the bits are all clear,
 * the empty string {@code ""} is returned.
 *
 * @param actionBits the action bit set
 * @param mappingFunction the mapping function (must not be {@code null})
 * @return the actions string (not {@code null})
 */
public static String toActionsString(long actionBits, LongFunction<String> mappingFunction) {
    Assert.checkNotNullParam("mappingFunction", mappingFunction);
    final StringBuilder sb = new StringBuilder();
    if (actionBits == 0) return "";
    long lb = Long.highestOneBit(actionBits);
    sb.append(mappingFunction.apply(lb));
    actionBits &= ~lb;
    while (actionBits != 0) {
        lb = Long.highestOneBit(actionBits);
        sb.append(',').append(mappingFunction.apply(lb));
        actionBits &= ~lb;
    }
    return sb.toString();
```

```
}

/**
 * Create an iterable view over a permission collection.
 *
 * @param pc the permission collection (must not be {@code null})
 * @return the iterable view (not {@code null})
 */
public static Iterable<Permission> iterable(PermissionCollection pc) {
   return () -> {
      final Enumeration<Permission> elements = pc.elements();
      return new Iterator<Permission>() {
         public boolean hasNext() {
            return elements.hasMoreElements();
         }

         public Permission next() {
            return elements.nextElement();
         }
      };
   };
}

/**
 * Perform an action for each permission in the given collection.
 *
 * @param collection the collection (must not be {@code null})
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 */
public static void forEachIn(PermissionCollection collection, Consumer<Permission> consumer) {
   Assert.checkNotNullParam("collection", collection);
   Assert.checkNotNullParam("consumer", consumer);
   final Enumeration<Permission> elements = collection.elements();
   while (elements.hasMoreElements()) {
      consumer.accept(elements.nextElement());
   }
}

/**
 * Perform an action for each permission in the given collection.
 *
 * @param collection the collection (must not be {@code null})
 * @param parameter the parameter to pass to the consumer
 * @param consumer the consumer to which each permission should be passed (must not be {@code null})
 * @param <P> the type of the parameter
 * @return the {@code parameter} that was passed in
 */
public static <P> P forEachIn(PermissionCollection collection, BiConsumer<P, Permission> consumer, P
```

```
parameter) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("consumer", consumer);
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            consumer.accept(parameter, elements.nextElement());
        }
        return parameter;
    }

    /**
     * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
     * {@code false} is returned; otherwise, {@code true} is returned.
     *
     * @param collection the collection (must not be {@code null})
     * @param predicate the predicate to apply to each element (must not be {@code null})
     * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
     */
    public static boolean forEachIn(PermissionCollection collection, Predicate<Permission> predicate) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("predicate", predicate);
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            if (! predicate.test(elements.nextElement())) {
                return false;
            }
        }
        return true;
    }

    /**
     * Run a test for each permission in the given collection.  If the predicate returns {@code false} for any element,
     * {@code false} is returned; otherwise, {@code true} is returned.
     *
     * @param collection the collection (must not be {@code null})
     * @param parameter the parameter to pass to the consumer
     * @param predicate the predicate to apply to each element (must not be {@code null})
     * @param <P> the type of the parameter
     * @return {@code true} if the predicate matched all the permissions in the collection, {@code false} otherwise
     */
    public static <P> boolean forEachIn(PermissionCollection collection, BiPredicate<P, Permission> predicate, P
parameter) {
        Assert.checkNotNullParam("collection", collection);
        Assert.checkNotNullParam("predicate", predicate);
        final Enumeration<Permission> elements = collection.elements();
        while (elements.hasMoreElements()) {
            if (! predicate.test(parameter, elements.nextElement())) {
                return false;
```

```
        }
    }
    return true;
}

/**
 * Create a permission collection that is the union of two permission collections.  The permission
 * collections must be read-only.
 *
 * @param pc1 the first permission collection (must not be {@code null})
 * @param pc2 the second permission collection (must not be {@code null})
 * @return a new permission collection that is the union of the two collections (not {@code null})
 */
public static PermissionCollection union(PermissionCollection pc1, PermissionCollection pc2) {
    Assert.checkNotNullParam("pc1", pc1);
    Assert.checkNotNullParam("pc2", pc2);
    if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
        throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
    }
    if (pc1.implies(ALL_PERMISSION) || pc2.implies(ALL_PERMISSION)) {
        return ALL_PERMISSIONS;
    } else {
        return new UnionPermissionCollection(pc1, pc2);
    }
}

/**
 * Create a permission collection that is the intersection of two permission collections.  The permission
 * collections must be read-only.
 *
 * @param pc1 the first permission collection (must not be {@code null})
 * @param pc2 the second permission collection (must not be {@code null})
 * @return a new permission collection that is the intersection of the two collections (not {@code null})
 */
public static PermissionCollection intersection(PermissionCollection pc1, PermissionCollection pc2) {
    Assert.checkNotNullParam("pc1", pc1);
    Assert.checkNotNullParam("pc2", pc2);
    if (! pc1.isReadOnly() || ! pc2.isReadOnly()) {
        throw ElytronMessages.log.permissionCollectionMustBeReadOnly();
    }
    if (pc1.implies(ALL_PERMISSION)) {
        return pc2;
    } else if (pc2.implies(ALL_PERMISSION)) {
        return pc1;
    } else {
        return new IntersectionPermissionCollection(pc1, pc2);
    }
}
```

```
    /**
     * Determine if one collection implies all the permissions in the other collection.
     *
     * @param collection the collection to check against (must not be {@code null})
     * @param testCollection the collection whose permissions are to be tested (must not be {@code null})
     * @return {@code true} if {@code collection} implies all of the permissions in {@code testCollection}, {@code
    false} otherwise
     */
    public static boolean impliesAll(PermissionCollection collection, PermissionCollection testCollection) {
        return forEachIn(collection, PermissionCollection::implies, testCollection);
    }

    /**
     * Determine if two permission collections are equal, that is, each collection implies all of the permissions in the
     * other collection.
     *
     * @param pc1 the first collection (must not be {@code null})
     * @param pc2 the second collection (must not be {@code null})
     * @return {@code true} if the collections imply one another, {@code false} otherwise
     */
    public static boolean equals(PermissionCollection pc1, PermissionCollection pc2) {
        return impliesAll(pc1, pc2) && impliesAll(pc2, pc1);
    }

    /**
     * Add all of the permissions from the source collection to the target collection.
     *
     * @param target the target collection (must not be {@code null})
     * @param source the source collection (must not be {@code null})
     * @return the target collection (not {@code null})
     */
    public static PermissionCollection addAll(PermissionCollection target, PermissionCollection source) {
        return forEachIn(source, PermissionCollection::add, target);
    }

    /**
     * Add all of the permissions from the source collection to the target collection.
     *
     * @param target the target collection (must not be {@code null})
     * @param source the source collection (must not be {@code null})
     * @return the target collection (not {@code null})
     */
    public static PermissionCollection addAll(PermissionCollection target, Collection<Permission> source) {
        source.forEach(target::add);
        return target;
    }
```

```
    /**
     * Add a permission to a collection, returning the target collection.  If the permission is {@code null}, it is
     * not added.
     *
     * @param target the target collection (must not be {@code null})
     * @param source the permission to add
     * @return the target collection (not {@code null})
     */
    public static PermissionCollection add(PermissionCollection target, Permission source) {
        Assert.checkNotNullParam("target", target);
        if (source != null) target.add(source);
        return target;
    }

    /**
     * Instantiate a permission with the given class name, permission name, and actions.
     *
     * @param classLoader the class loader to search in ({@code null} indicates the system class loader)
     * @param className the name of the permission class to instantiate (must not be {@code null})
     * @param name the permission name (may be {@code null} if allowed by the permission class)
     * @param actions the permission actions (may be {@code null} if allowed by the permission class)
     * @return the permission object (not {@code null})
     * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
     * @throws ClassCastException if the class name does not refer to a subclass of {@link Permission}
     */
    public static Permission createPermission(final ClassLoader classLoader, final String className, final String
name, final String actions) {
        Assert.checkNotNullParam("className", className);
        final Class<? extends Permission> permissionClass;
        try {
            permissionClass = Class.forName(className, true, classLoader).asSubclass(Permission.class);
        } catch (ClassNotFoundException e) {
            throw ElytronMessages.log.permissionClassMissing(className, e);
        }
        return createPermission(permissionClass, name, actions);
    }

    /**
     * Instantiate a permission with the given class, permission name, and actions.
     *
     * @param permissionClass the permission class to instantiate (must not be {@code null})
     * @param name the permission name (may be {@code null} if allowed by the permission class)
     * @param actions the permission actions (may be {@code null} if allowed by the permission class)
     * @return the permission object (not {@code null})
     * @throws InvalidPermissionClassException if the permission class does not exist or is not valid
     */
    public static Permission createPermission(final Class<? extends Permission> permissionClass, final String name,
final String actions) {
```

```
        Assert.checkNotNullParam("permissionClass", permissionClass);
        Constructor<? extends Permission> noArgs = null;
        Constructor<? extends Permission> oneArg = null;
        Constructor<? extends Permission> twoArg = null;
        for (Constructor<?> raw : permissionClass.getConstructors()) {
            @SuppressWarnings("unchecked")
            Constructor<? extends Permission> ctor = (Constructor<? extends Permission>) raw;
            final Class<?>[] parameterTypes = ctor.getParameterTypes();
            if (parameterTypes.length == 2 && parameterTypes[0] == String.class && parameterTypes[1] ==
    String.class) {
                twoArg = ctor;
            } else if (parameterTypes.length == 1 && parameterTypes[0] == String.class) {
                oneArg = ctor;
            } else if (parameterTypes.length == 0) {
                noArgs = ctor;
            }
        }
        try {
            if (twoArg != null) {
                return twoArg.newInstance(name, actions);
            } else if (oneArg != null) {
                return oneArg.newInstance(name);
            } else if (noArgs != null) {
                return noArgs.newInstance();
            } else {
                throw ElytronMessages.log.noPermissionConstructor(permissionClass.getName());
            }
        } catch (IllegalAccessException e) {
            throw new IllegalAccessError(e.getMessage());
        } catch (InstantiationException e) {
            throw ElytronMessages.log.permissionInstantiation(permissionClass.getName(), e);
        } catch (InvocationTargetException e) {
            try {
                throw e.getCause();
            } catch (Error | RuntimeException cause) {
                throw cause;
            } catch (Throwable cause) {
                throw new UndeclaredThrowableException(cause);
            }
        }
    }

    /**
     * Get a read-only collection of the given permissions.
     *
     * @param permissions the permissions to assign
     * @return the read-only collection
     */
```

```
    public static PermissionCollection readOnlyCollectionOf(Permission... permissions) {
        final int length = permissions.length;
        if (length == 0) {
            return EMPTY_PERMISSION_COLLECTION;
        } else {
            Permissions collection = new Permissions();
            addAll(collection, Arrays.asList(permissions));
            collection.setReadOnly();
            return collection;
        }
    }
}
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package org.wildfly.security.permission;

/**
* A permission which has a name only, and no actions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractNameOnlyPermission<This extends AbstractNameOnlyPermission<This>> extends
AbstractNamedPermission<This> {
    /**
     * Construct a new instance.
     *
     * @param name the permission name (must not be {@code null})
     */
    protected AbstractNameOnlyPermission(final String name) {
        super(name);
    }
```

```
  public AbstractPermissionCollection newPermissionCollection() {
     return new ByNamePermissionCollection(this);
  }
}
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringEnumeration;
import org.wildfly.security.util.StringMapping;

/**
* A general Elytron permission.  The permission {@code name} must be one of the following:
* <ul>
*     <li>{@code authenticate}</li>
*     <li>{@code createAuthenticator}</li>
*     <li>{@code createAuthenticationContextConfigurationClient}</li>
*     <li>{@code createSecurityDomain}</li>
*     <li>{@code createSecurityRealm}</li>
*     <li>{@code registerSecurityDomain}</li>
*     <li>{@code getSecurityDomain}</li>
*     <li>{@code unregisterSecurityDomain}</li>
*     <li>{@code setRunAsPrincipal}</li>
*     <li>{@code createServerAuthenticationContext}</li>
*     <li>{@code getPrivateCredentials}</li>
*     <li>{@code getIdentity}</li>
*     <li>{@code getIdentityForUpdate}</li>
*     <li>{@code createAdHocIdentity}</li>
* </ul>
* The {@code actions} are not used and should be empty or {@code null}.
*
```

```
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public final class ElytronPermission extends AbstractNameSetOnlyPermission<ElytronPermission> {

  private static final long serialVersionUID = 6124294238228442419L;

  private static final StringEnumeration strings = StringEnumeration.of(
     "authenticate",
     "createAuthenticator",
     "createAuthenticationContextConfigurationClient",
     "createSecurityDomain",
     "createSecurityRealm",
     "registerSecurityDomain",
     "getSecurityDomain",
     "unregisterSecurityDomain",
     "setRunAsPrincipal",
     "createServerAuthenticationContext",
     "getPrivateCredentials",
     "getIdentity",
     "getIdentityForUpdate",
     "createAdHocIdentity"
  );

  static final StringMapping<ElytronPermission> mapping = new StringMapping<>(strings,
ElytronPermission::new);

  private static final ElytronPermission allPermission = new ElytronPermission("*");

  /**
   * Construct a new instance.
   *
   * @param name the name of the permission
   */
  public ElytronPermission(final String name) {
     this(name, null);
  }

  /**
   * Construct a new instance.
   *
   * @param name the name of the permission
   * @param actions the actions (should be empty)
   */
  public ElytronPermission(final String name, final String actions) {
     super(name, strings);
     requireEmptyActions(actions);
  }
```

```
  public ElytronPermission withName(final String name) {
     return forName(name);
  }

  /**
   * Get the permission with the given name.
   *
   * @param name the name (must not be {@code null})
   * @return the permission (not {@code null})
   * @throws IllegalArgumentException if the name is not valid
   */
  public static ElytronPermission forName(final String name) {
     Assert.checkNotNullParam("name", name);
     return name.equals("*") ? allPermission : mapping.getItemByString(name);
  }
}
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*/

package org.wildfly.security.permission;

import org.wildfly.common.Assert;

import java.security.Permission;

/**
* An abstract base class for named permissions with useful API and implementation methods.
* <p>
* Subclasses of this class are always serialized as a special serialized permission object, which captures the type
class,
* the permission name (if any), and the permission action (if any) as a string.  Therefore, none of the fields of any
* subclass of this class are serialized unless they are included in the name or actions properties.
* <p>
```

```
* Concrete subclasses are expected to be immutable and final.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public abstract class AbstractNamedPermission<This extends AbstractNamedPermission<This>> extends
AbstractPermission<This> {
  private static final long serialVersionUID = 5774685776540853292L;

  /**
   * Construct a new instance.
   *
   * @param name the permission name (must not be {@code null})
   */
  protected AbstractNamedPermission(final String name) {
     super(Assert.checkNotNullParam("name", name));
  }

  /**
   * Create a new permission which is identical to this one, except with a new {@code name}.
   *
   * @param name the name to use (must not be {@code null})
   * @return the new permission
   */
  public abstract This withName(String name);

  /**
   * Determine whether this permission has a name equal to the given name.
   *
   * @param name the name to check
   * @return {@code true} if this permission's name is equal to the given name, {@code false} otherwise
   */
  public boolean nameEquals(final String name) {
     return getName().equals(name);
  }

  /**
   * Determine whether this permission has a name equal to the name of the given permission.  If the given
permission
   * is of a different type than this permission, {@code false} is returned.
   *
   * @param permission the permission whose name is to be checked
   * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
   */
  @SuppressWarnings("unchecked")
  public final boolean nameEquals(final Permission permission) {
     return permission != null && permission.getClass() == getClass() && nameEquals((This) permission);
  }
```

```
    /**
     * Determine whether this permission has a name equal to the name of the given permission.
     *
     * @param permission the permission whose name is to be checked
     * @return {@code true} if this permission's name is equal to the given permission's name, {@code false}
otherwise
     */
    public final boolean nameEquals(final This permission) {
        return permission != null && nameEquals(permission.getName());
    }

    /**
     * Get the hash code of the name.  The default implementation returns {@code getName().hashCode()}.
     *
     * @return the hash code of the name
     */
    protected int nameHashCode() {
        return getName().hashCode();
    }

    /**
     * Determine whether this permission implies the given name.
     *
     * @param name the name to check
     * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
     */
    public boolean impliesName(final String name) {
        return nameEquals("*") || nameEquals(name);
    }

    /**
     * Determine whether this permission implies the name of the given permission.  If
     * the permission is not of the same type as this permission, {@code false} is returned.
     *
     * @param permission the permission whose name is to be checked
     * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
     */
    @SuppressWarnings("unchecked")
    public final boolean impliesName(final Permission permission) {
        return permission != null && permission.getClass() == getClass() && impliesName((This) permission);
    }

    /**
     * Determine whether this permission implies the name of the given permission.
     *
     * @param permission the permission whose name is to be checked
     * @return {@code true} if this permission's name implies the given name, {@code false} otherwise
```

```
     */
    public boolean impliesName(final This permission) {
        return permission != null && impliesName(permission.getName());
    }

    public boolean implies(final This permission) {
        return permission != null && impliesName(permission);
    }

    public boolean equals(final This other) {
        return other != null && nameEquals(other);
    }

    public int hashCode() {
        return getClass().hashCode() * 71 + nameHashCode();
    }
}
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*/

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class PermissionVerifierPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 5119756048547471645L;

    private final PermissionVerifier verifier;
```

```
    PermissionVerifierPermissionCollection(final PermissionVerifier verifier) {
        this.verifier = verifier;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return verifier.implies(permission);
    }

    public Enumeration<Permission> elements() {
        throw Assert.unsupported();
    }
}
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*/

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

final class IntersectionPermissionCollection extends PermissionCollection implements PermissionVerifier {
    private static final long serialVersionUID = 8045087406778847303L;
```

```
    private final PermissionCollection pc1;
    private final PermissionCollection pc2;

    IntersectionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
        this.pc1 = pc1;
        this.pc2 = pc2;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return pc1.implies(permission) && pc2.implies(permission);
    }

    public Enumeration<Permission> elements() {
        // TODO: this is theoretically possible to implement using an IntersectionCollectionPermission;
        // however the primary use case is going to be in protection domains and verification scenarios so we may
        // not ever actually need this
        throw Assert.unsupported();
    }
}
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*/

package org.wildfly.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.security.Policy;
import java.security.ProtectionDomain;
```

```
import org.wildfly.common.Assert;
import org.wildfly.security._private.ElytronMessages;

/**
* An interface for objects that can verify permissions.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
@FunctionalInterface
public interface PermissionVerifier {
  /**
   * Determine if the permission is verified by this object.
   *
   * @param permission the permission to verify (must not be {@code null})
   * @return {@code true} if the permission is implied by this verifier, {@code false} otherwise
   */
  boolean implies(Permission permission);

  /**
   * Return a new verifier which implies permissions which are implied both by this verifier and by the given verifier.
   *
   * @param other the other verifier (must not be {@code null})
   * @return the new permission verifier (not {@code null})
   */
  default PermissionVerifier and(PermissionVerifier other) {
      Assert.checkNotNullParam("other", other);
      return permission -> implies(permission) && other.implies(permission);
  }

  /**
   * Return a new verifier which implies permissions which are implied either by this verifier or by the given verifier.
   *
   * @param other the other verifier (must not be {@code null})
   * @return the new permission verifier (not {@code null})
   */
  default PermissionVerifier or(PermissionVerifier other) {
      Assert.checkNotNullParam("other", other);
      return permission -> implies(permission) || other.implies(permission);
  }

  /**
   * Return a new verifier which implies permissions which are implied by only one of this verifier or the given verifier.
   *
   * @param other the other verifier (must not be {@code null})
```

```
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier xor(PermissionVerifier other) {
        Assert.checkNotNullParam("other", other);
        return permission -> implies(permission) ^ other.implies(permission);
    }

    /**
     * Return a new verifier which implies the opposite of this verifier.
     *
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier not() {
        return permission -> ! implies(permission);
    }

    /**
     * Return a new verifier which implies permissions which are implied by this verifier but not the given verifier.
     *
     * @param other the other verifier (must not be {@code null})
     * @return the new permission verifier (not {@code null})
     */
    default PermissionVerifier unless(PermissionVerifier other) {
        Assert.checkNotNullParam("other", other);
        return permission -> implies(permission) && ! other.implies(permission);
    }

    /**
     * Check a permission, throwing an exception if the permission is not implied.
     *
     * @param permission the permission to check (must not be {@code null})
     * @throws SecurityException if the permission is not implied
     */
    default void checkPermission(Permission permission) throws SecurityException {
        Assert.checkNotNullParam("permission", permission);
        if (! implies(permission)) {
            throw ElytronMessages.log.permissionCheckFailed(permission, this);
        }
    }

    /**
     * Get a permission verifier for a single permission.
     *
     * @param permission the permission (must not be {@code null})
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(Permission permission) {
        Assert.checkNotNullParam("permission", permission);
```

```
        return permission instanceof PermissionVerifier ? (PermissionVerifier) permission : permission::implies;
    }

    /**
     * Get a permission verifier for a permission collection.
     *
     * @param permissionCollection the permission collection (must not be {@code null})
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(PermissionCollection permissionCollection) {
        Assert.checkNotNullParam("permissionCollection", permissionCollection);
        return permissionCollection instanceof PermissionVerifier ? (PermissionVerifier) permissionCollection :
permissionCollection::implies;
    }

    /**
     * Get a permission verifier for a protection domain.
     *
     * @param protectionDomain the protection domain (must not be {@code null})
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(ProtectionDomain protectionDomain) {
        Assert.checkNotNullParam("protectionDomain", protectionDomain);
        return protectionDomain instanceof PermissionVerifier ? (PermissionVerifier) protectionDomain :
protectionDomain::implies;
    }

    /**
     * Get a permission verifier for a policy's view of a protection domain.
     *
     * @param policy the policy (must not be {@code null})
     * @param protectionDomain the protection domain (must not be {@code null})
     * @return the verifier (not {@code null})
     */
    static PermissionVerifier from(Policy policy, ProtectionDomain protectionDomain) {
        Assert.checkNotNullParam("policy", policy);
        Assert.checkNotNullParam("protectionDomain", protectionDomain);
        return permission -> policy.implies(protectionDomain, permission);
    }

    /**
     * Convert this verifier a permission collection which implies everything this verifier implies.  If this instance
     * is already a {@code PermissionCollection} instance, then this instance may be cast and returned.  Otherwise,
     * this method may return a new, read-only collection, which cannot be iterated.
     *
     * @return the permission collection (not {@code null})
     */
    default PermissionCollection toPermissionCollection() {
```

```
        if (this instanceof PermissionCollection) {
            return (PermissionCollection) this;
        } else {
            return new PermissionVerifierPermissionCollection(this);
        }
    }

    /**
     * A verifier which implies no permissions.
     */
    PermissionVerifier NONE = permission -> false;

    /**
     * A verifier which implies all permissions.
     */
    PermissionVerifier ALL = permission -> true;
}
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*/

package org.wildfly.security.permission;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

import org.wildfly.security._private.ElytronMessages;

final class UnionPermissionCollection extends PermissionCollection implements PermissionVerifier {
    private static final long serialVersionUID = 6731525842957764833L;
```

```
    private final PermissionCollection pc1;
    private final PermissionCollection pc2;

    UnionPermissionCollection(final PermissionCollection pc1, final PermissionCollection pc2) {
        this.pc1 = pc1;
        this.pc2 = pc2;
        setReadOnly();
    }

    public void add(final Permission permission) {
        throw ElytronMessages.log.readOnlyPermissionCollection();
    }

    public boolean implies(final Permission permission) {
        return pc1.implies(permission) || pc2.implies(permission);
    }

    public Enumeration<Permission> elements() {
        final Enumeration<Permission> e1 = pc1.elements();
        final Enumeration<Permission> e2 = pc2.elements();
        return new Enumeration<Permission>() {
            public boolean hasMoreElements() {
                return e1.hasMoreElements() || e2.hasMoreElements();
            }

            public Permission nextElement() {
                return e1.hasMoreElements() ? e1.nextElement() : e2.nextElement();
            }
        };
    }

    private void readObject(ObjectInputStream ois) throws IOException, ClassNotFoundException {
        ois.defaultReadObject();
        if (pc1 == null) {
            throw ElytronMessages.log.invalidObjectNull("pc1");
        }
        if (pc2 == null) {
            throw ElytronMessages.log.invalidObjectNull("pc2");
        }
    }
}
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*/

package org.wildfly.security.permission;

/**
* An exception which is thrown when an invalid permission class is instantiated.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
public class InvalidPermissionClassException extends IllegalArgumentException {
  private static final long serialVersionUID = 7910334218992625018L;

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance.  The message is left blank ({@code
null}), and
   * no
   * cause is specified.
   */
  public InvalidPermissionClassException() {
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial message.  No
   * cause is specified.
   *
   * @param msg the message
   */
  public InvalidPermissionClassException(final String msg) {
     super(msg);
  }

  /**
   * Constructs a new {@code InvalidPermissionClassException} instance with an initial cause.  If
   * a non-{@code null} cause is specified, its message is used to initialize the message of this
   * {@code InvalidPermissionClassException}; otherwise the message is left blank ({@code null}).
   *
   * @param cause the cause
   */
  public InvalidPermissionClassException(final Throwable cause) {
```

```
        super(cause);
    }

    /**
     * Constructs a new {@code InvalidPermissionClassException} instance with an initial message and cause.
     *
     * @param msg the message
     * @param cause the cause
     */
    public InvalidPermissionClassException(final String msg, final Throwable cause) {
        super(msg, cause);
    }
}
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*/

package org.wildfly.security.permission;

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

import org.wildfly.common.Assert;
import org.wildfly.security.util.StringMapping;

/**
* Stub class for the unlikely event that a serialized instance is lying around somewhere.
*
* @author <a href="mailto:david.lloyd@redhat.com">David M. Lloyd</a>
*/
@Deprecated
final class ElytronPermissionCollection extends PermissionCollection implements Serializable {
```

```
    private static final long serialVersionUID = 1L;

    private final int p1;

    ElytronPermissionCollection(final int p1) {
        this.p1 = p1;
    }

    public void add(final Permission permission) {
        throw Assert.unsupported();
    }

    public boolean implies(final Permission permission) {
        throw Assert.unsupported();
    }

    public Enumeration<Permission> elements() {
        throw Assert.unsupported();
    }

    Object readResolve() {
        final AbstractPermissionCollection collection = new ElytronPermission("*").newPermissionCollection();
        final StringMapping<ElytronPermission> mapping = ElytronPermission.mapping;
        int bits = p1;
        int test;
        while (bits != 0) {
            collection.add(mapping.getItemById(Integer.numberOfTrailingZeros(test = Integer.lowestOneBit(bits))));
            bits &= ~test;
        }
        if (isReadOnly()) {
            collection.setReadOnly();
        }
        return collection;
    }
}
```

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2.618 wildfly-elytron-integration 6.0.2.Final

2.619 wildfly-elytron-tool 1.4.0.Final

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```
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*/

package org.wildfly.naming.java.permission;

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

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;

/**
* Permission to access an object within the "java:" JNDI namespace.
* <p>
* This permission does not span into bound nested contexts; such contexts may be governed by their own
permission scheme.
```

```
* <p>
* The {@code name} segment of the permission is a JNDI path whose segments are separated by {@code /}
characters.  The
* name may be preceded with the string {@code java:} for compatibility with previous schemes.  A name of
* {@code <<ALL BINDINGS>>} is translated to {@code -} for compatibility reasons.
*/
public final class JndiPermission extends Permission {
  private static final long serialVersionUID = 1272655825146515997L;

  private final int actionBits;
  private String actionString;

  /**
   * The bitwise encoding of the {@code bind} action.
   */
  public static final int ACTION_BIND                = 0b000000001;
  /**
   * The bitwise encoding of the {@code rebind} action.
   */
  public static final int ACTION_REBIND              = 0b000000010;
  /**
   * The bitwise encoding of the {@code unbind} action.
   */
  public static final int ACTION_UNBIND              = 0b000000100;
  /**
   * The bitwise encoding of the {@code lookup} action.
   */
  public static final int ACTION_LOOKUP              = 0b000001000;
  /**
   * The bitwise encoding of the {@code list} action.
   */
  public static final int ACTION_LIST                = 0b000010000;
  /**
   * The bitwise encoding of the {@code listBindings} action.
   */
  public static final int ACTION_LIST_BINDINGS       = 0b000100000;
  /**
   * The bitwise encoding of the {@code createSubcontext} action.
   */
  public static final int ACTION_CREATE_SUBCONTEXT   = 0b001000000;
  /**
   * The bitwise encoding of the {@code destroySubcontext} action.
   */
  public static final int ACTION_DESTROY_SUBCONTEXT  = 0b010000000;
  /**
   * The bitwise encoding of the {@code addNamingListener} action.
   */
  public static final int ACTION_ADD_NAMING_LISTENER = 0b100000000;
```

```
    /**
     * The bitwise encoding of the {@code *} action.  This value is the bitwise-OR of all of the other action bits.
     */
    public static final int ACTION_ALL                = 0b111111111;

    /**
     * Construct a new instance.
     *
     * @param name the path name (must not be {@code null})
     * @param actions the actions (must not be {@code null})
     */
    public JndiPermission(final String name, final String actions) {
        this(name, parseActions(Assert.checkNotNullParam("actions", actions)));
    }

    /**
     * Construct a new instance using an action bitmask.  If a bit in the mask falls outside of {@link
#ACTION_ALL}, it
     * is stripped.
     *
     * @param name the path name (must not be {@code null})
     * @param actionBits the action bits
     */
    public JndiPermission(final String name, final int actionBits) {
        super(canonicalize1(Assert.checkNotNullParam("name", name)));
        this.actionBits = actionBits & ACTION_ALL;
    }

    /**
     * Determine if this permission implies the other permission.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
     */
    public boolean implies(final Permission permission) {
        return permission instanceof JndiPermission && implies((JndiPermission) permission);
    }

    /**
     * Determine if this permission implies the other permission.
     *
     * @param permission the other permission
     * @return {@code true} if this permission implies the other, {@code false} if it does not or {@code permission}
is {@code null}
     */
    public boolean implies(final JndiPermission permission) {
        return permission != null && ((actionBits & permission.actionBits) == permission.actionBits) &&
```

```
impliesPath(permission.getName());
    }

    /**
     * Determine if this permission implies the given {@code actions} on the given {@code name}.
     *
     * @param name the name (must not be {@code null})
     * @param actions the actions (must not be {@code null})
     * @return {@code true} if this permission implies the {@code actions} on the {@code name}, {@code false}
otherwise
     */
    public boolean implies(final String name, final String actions) {
        return implies(name, parseActions(actions));
    }

    /**
     * Determine if this permission implies the given {@code actionsBits} on the given {@code name}.
     *
     * @param name the name (must not be {@code null})
     * @param actionBits the action bits
     * @return {@code true} if this permission implies the {@code actionBits} on the {@code name}, {@code false}
otherwise
     */
    public boolean implies(final String name, final int actionBits) {
        Assert.checkNotNullParam("name", name);
        final int maskedBits = actionBits & ACTION_ALL;
        return (this.actionBits & maskedBits) == maskedBits && impliesPath(name);
    }

    /**
     * Determine whether this object is equal to another.
     *
     * @param other the other object
     * @return {@code true} if they are equal, {@code false} otherwise
     */
    public boolean equals(Object other) {
        return other instanceof JndiPermission && equals((JndiPermission)other);
    }

    /**
     * Determine whether this object is equal to another.
     *
     * @param other the other object
     * @return {@code true} if they are equal, {@code false} otherwise
     */
    public boolean equals(JndiPermission other) {
        return this == other || other != null && getName().equals(other.getName()) && actionBits == other.actionBits;
    }
```

```
/**
 * Get the hash code of this permission.
 *
 * @return the hash code of this permission
 */
public int hashCode() {
    return actionBits * 23 + getName().hashCode();
}

/**
 * Get the actions string.  The actions string will be a canonical version of the one passed in at construction.
 *
 * @return the actions string (not {@code null})
 */
public String getActions() {
    final String actionString = this.actionString;
    if (actionString != null) {
        return actionString;
    }
    int actionBits = this.actionBits;
    if (actionBits == ACTION_ALL) {
        return this.actionString = "*";
    }
    int m = Integer.lowestOneBit(actionBits);
    if (m != 0) {
        StringBuilder b = new StringBuilder();
        b.append(getAction(m));
        actionBits &= ~m;
        while (actionBits != 0) {
            m = Integer.lowestOneBit(actionBits);
            b.append(',').append(getAction(m));
            actionBits &= ~m;
        }
        return this.actionString = b.toString();
    } else {
        return this.actionString = "";
    }
}

/**
 * Get the action bits.
 *
 * @return the action bits
 */
public int getActionBits() {
    return actionBits;
}
```

```
    /**
     * Return a permission which is equal to this one except with its actions reset to {@code actionBits}.  If the given
     * {@code actionBits} equals the current bits of this permission, then this permission instance is returned; otherwise
     * a new permission is constructed. Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
     *
     * @param actionBits the action bits to use
     * @return a permission with only the given action bits (not {@code null})
     */
    public JndiPermission withNewActions(int actionBits) {
        actionBits &= ACTION_ALL;
        if (actionBits == this.actionBits) {
            return this;
        } else {
            return new JndiPermission(getName(), actionBits);
        }
    }

    /**
     * Return a permission which is equal to this one except with its actions reset to {@code actions}.  If the given
     * {@code actions} equals the current actions of this permission, then this permission instance is returned; otherwise
     * a new permission is constructed.
     *
     * @param actions the actions to use (must not be {@code null})
     * @return a permission with only the given action bits (not {@code null})
     */
    public JndiPermission withNewActions(String actions) {
        return withNewActions(parseActions(Assert.checkNotNullParam("actions", actions)));
    }

    /**
     * Return a permission which is equal to this one except with additional action bits.  If the given {@code actionBits}
     * do not add any new actions, then this permission instance is returned; otherwise a new permission is constructed.
     * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
     *
     * @param actionBits the action bits to add
     * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
     */
    public JndiPermission withActions(int actionBits) {
        return withNewActions(actionBits & ACTION_ALL | this.actionBits);
    }

    /**
```

```
    * Return a permission which is equal to this one except with additional actions.  If the given {@code actionBits}
    * do not add any new actions, then this permission instance is returned; otherwise a new permission is
constructed.
    *
    * @param actions the actions to add (must not be {@code null})
    * @return a permission with the union of permissions from this instance and the given bits (not {@code null})
    */
   public JndiPermission withActions(String actions) {
      return withActions(parseActions(Assert.checkNotNullParam("actions", actions)));
   }

   /**
    * Return a permission which is equal to this one except without some action bits.  If the given {@code
actionBits}
    * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
    * Any action bits which fall outside of {@link #ACTION_ALL} are silently ignored.
    *
    * @param actionBits the action bits to remove
    * @return a permission with the given bits subtracted from this instance (not {@code null})
    */
   public JndiPermission withoutActions(int actionBits) {
      return withNewActions(this.actionBits & ~(actionBits & ACTION_ALL));
   }

   /**
    * Return a permission which is equal to this one except without some actions.  If the given {@code actions}
    * do not remove any actions, then this permission instance is returned; otherwise a new permission is constructed.
    *
    * @param actions the actions to remove (must not be {@code null})
    * @return a permission with the given bits subtracted from this instance (not {@code null})
    */
   public JndiPermission withoutActions(String actions) {
      return withoutActions(parseActions(Assert.checkNotNullParam("actions", actions)));
   }

   /**
    * Construct a new type-specific permission collection.
    *
    * @return the new permission collection instance (not {@code null})
    */
   public PermissionCollection newPermissionCollection() {
      return new JndiPermissionCollection();
   }

   // semi-private

   Object writeReplace() {
      return new SerializedJndiPermission(getName(), getActions());
```

```
}

boolean impliesPath(final String yourName) {
   return yourName.startsWith("java:") ? impliesPath0(yourName.substring(5)) : impliesPath0(yourName);
}

// private

private boolean impliesPath0(final String yourName) {
   // segment-by-segment comparison
   final String myName = getName();
   final Iterator<String> myIter = JndiPermissionNameParser.nameIterator(myName);
   final Iterator<String> yourIter = JndiPermissionNameParser.nameIterator(yourName);
   // even if it's just "", there is always a first element
   assert myIter.hasNext() && yourIter.hasNext();
   String myNext;
   String yourNext;
   for (;;) {
      myNext = myIter.next();
      yourNext = yourIter.next();
      if (myNext.equals("-")) {
         // "-" implies everything including ""
         return true;
      }
      if (! myNext.equals("*") && ! myNext.equals(yourNext)) {
         // "foo/bar" does not imply "foo/baz"
         return false;
      }
      if (myIter.hasNext()) {
         if (! yourIter.hasNext()) {
            // "foo/bar" does not imply "foo"
            return false;
         }
      } else {
         // if neither has next, "foo/bar" implies "foo/bar", else "foo" does not imply "foo/bar"
         return ! yourIter.hasNext();
      }
   }
}

private static String canonicalize1(String name) {
   Assert.checkNotNullParam("name", name);
   return name.equalsIgnoreCase("<<ALL BINDINGS>>") ? "-" : canonicalize2(name);
}

private static String canonicalize2(String name) {
   return name.startsWith("java:") ? name.substring(5) : name;
}
```

```
private static int parseActions(final String actionsString) {
    // TODO: switch to Elytron utility methods to do this
    int actions = 0;
    int pos = 0;
    int idx = actionsString.indexOf(',');
    for (;;) {
        String str;
        if (idx == -1) {
            str = actionsString.substring(pos, actionsString.length()).trim();
            if (! str.isEmpty()) actions |= parseAction(str);
            return actions;
        } else {
            str = actionsString.substring(pos, idx).trim();
            pos = idx + 1;
            if (! str.isEmpty()) actions |= parseAction(str);
            idx = actionsString.indexOf(',', pos);
        }
    }
}

private static int parseAction(final String str) {
    switch (str) {
        case "*":
        case "all": return ACTION_ALL;
        case "bind": return ACTION_BIND;
        case "rebind": return ACTION_REBIND;
        case "unbind": return ACTION_UNBIND;
        case "lookup": return ACTION_LOOKUP;
        case "list": return ACTION_LIST;
        case "listBindings": return ACTION_LIST_BINDINGS;
        case "createSubcontext": return ACTION_CREATE_SUBCONTEXT;
        case "destroySubcontext": return ACTION_DESTROY_SUBCONTEXT;
        case "addNamingListener": return ACTION_ADD_NAMING_LISTENER;
        default: {
            throw NamingLogger.ROOT_LOGGER.invalidPermissionAction(str);
        }
    }
}

private String getAction(final int bit) {
    switch (bit) {
        case ACTION_BIND: return "bind";
        case ACTION_REBIND: return "rebind";
        case ACTION_UNBIND: return "unbind";
        case ACTION_LOOKUP: return "lookup";
        case ACTION_LIST: return "list";
        case ACTION_LIST_BINDINGS: return "listBindings";
```

```
            case ACTION_CREATE_SUBCONTEXT: return "createSubcontext";
            case ACTION_DESTROY_SUBCONTEXT: return "destroySubcontext";
            case ACTION_ADD_NAMING_LISTENER: return "addNamingListener";
            default: throw Assert.impossibleSwitchCase(bit);
        }
    }
}
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*/

package org.wildfly.naming.java.permission;

import java.io.Serializable;

final class SerializedJndiPermission implements Serializable {
    private static final long serialVersionUID = - 7602123815143424767L;

    private final String name;
    private final String actions;

    SerializedJndiPermission(final String name, final String actions) {
        this.name = name;
        this.actions = actions;
    }

    Object readResolve() {
        return new JndiPermission(name, actions);
    }
}
```

```
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*/

package org.wildfly.naming.java.permission;

import java.io.Serializable;

class SerializedJndiPermissionCollection implements Serializable {

  private static final long serialVersionUID = 315106751231586701L;

  private final boolean readOnly;
  private final JndiPermission[] permissions;

  SerializedJndiPermissionCollection(final boolean readOnly, final JndiPermission[] permissions) {
     this.readOnly = readOnly;
     this.permissions = permissions;
  }

  Object readResolve() {
     final JndiPermissionCollection collection = new JndiPermissionCollection(permissions);
     if (readOnly) collection.setReadOnly();
     return collection;
  }
}
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```

```
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package org.wildfly.naming.java.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.concurrent.atomic.AtomicReference;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.Assert;

final class JndiPermissionCollection extends PermissionCollection {

  private static final long serialVersionUID = - 769684900128311150L;
  private static final JndiPermission[] NO_PERMISSIONS = new JndiPermission[0];

  private final AtomicReference<JndiPermission[]> permissions;

  JndiPermissionCollection() {
     permissions = new AtomicReference<>(NO_PERMISSIONS);
  }

  JndiPermissionCollection(JndiPermission[] permissions) {
     Assert.checkNotNullParam("permissions", permissions);
     this.permissions = new AtomicReference<>(permissions);
  }

  public void add(final Permission permission) {
     if (isReadOnly()) {
        throw NamingLogger.ROOT_LOGGER.cannotAddToReadOnlyPermissionCollection();
```

```
    }
    if (! (permission instanceof JndiPermission)) {
        throw NamingLogger.ROOT_LOGGER.invalidPermission(permission);
    }
    final AtomicReference<JndiPermission[]> permissions = this.permissions;
    JndiPermission jndiPermission = (JndiPermission) permission;
    if (jndiPermission.getActionBits() == 0) {
        // no operation
        return;
    }
    JndiPermission[] oldVal;
    ArrayList<JndiPermission> newVal;
    boolean added = false;
    do {
        oldVal = permissions.get();
        newVal = new ArrayList<>(oldVal.length + 1);
        // first, test if it's in the set, or combine with any other permission with the same actions
        for (final JndiPermission testPerm : oldVal) {
            if (testPerm.implies(jndiPermission)) {
                // already in the set
                return;
            } else if (jndiPermission.implies(testPerm)) {
                // otherwise skip all other matches
            } else if (jndiPermission.getName().equals(testPerm.getName())) {
                // the two .implies() would have caught this condition
                assert jndiPermission.getActionBits() != testPerm.getActionBits();
                jndiPermission = jndiPermission.withActions(testPerm.getActionBits());
                // and skip it
            }
        }
        for (final JndiPermission testPerm : oldVal) {
            if (! jndiPermission.implies(testPerm)) {
                newVal.add(testPerm);
            }
        }
        newVal.add(jndiPermission);
    } while (! permissions.compareAndSet(oldVal, newVal.toArray(NO_PERMISSIONS)));
}

public boolean implies(final Permission permission) {
    final JndiPermission[] jndiPermissions = permissions.get();
    for (JndiPermission jndiPermission : jndiPermissions) {
        if (jndiPermission.implies(permission)) {
            return true;
        }
    }
    return false;
}
```

```
  public Enumeration<Permission> elements() {
     final JndiPermission[] jndiPermissions = permissions.get();
     return new Enumeration<Permission>() {
        int i;
        public boolean hasMoreElements() {
           return i < jndiPermissions.length;
        }

        public Permission nextElement() {
           return jndiPermissions[i++];
        }
     };
  }

  Object writeReplace() {
     return new SerializedJndiPermissionCollection(isReadOnly(), permissions.get());
  }
}
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*/

package org.wildfly.naming.java.permission;

import java.util.Iterator;
import java.util.NoSuchElementException;

import org.jboss.as.naming.logging.NamingLogger;
import org.wildfly.common.iteration.CodePointIterator;
```

```
final class JndiPermissionNameParser {
  private JndiPermissionNameParser() {
  }

  static Iterator<String> nameIterator(final String string) {
     return new ParsingIterator(string);
  }

  static Iterator<String> segmentsIterator(String[] segments) {
     return new SegmentsIterator(segments);
  }

  static String[] toArray(Iterator<String> iter) {
     return toArray(iter, 0);
  }

  private static String[] toArray(final Iterator<String> iter, final int size) {
     if (iter.hasNext()) {
        String next = iter.next();
        String[] array = toArray(iter, size + 1);
        array[size] = next;
        return array;
     } else {
        return new String[size];
     }
  }

  static class SegmentsIterator implements Iterator<String> {
     private final String[] segments;
     private int idx;

     SegmentsIterator(final String[] segments) {
        this.segments = segments;
     }

     public boolean hasNext() {
        return idx < segments.length;
     }

     public String next() {
        return segments[idx ++];
     }

     String[] getSegments() {
        return segments;
     }
  }
```

```
static class ParsingIterator implements Iterator<String> {
    private final CodePointIterator cpi;
    private final StringBuilder b;
    private final String string;
    private boolean hasNext = true;

    ParsingIterator(final String string) {
        this.string = string;
        cpi = CodePointIterator.ofString(string);
        b = new StringBuilder();
    }

    public boolean hasNext() {
        return hasNext;
    }

    public String next() {
        if (! hasNext()) throw new NoSuchElementException();
        final StringBuilder b = this.b;
        final CodePointIterator cpi = this.cpi;
        int cp;
        while (cpi.hasNext()) {
            cp = cpi.next();
            if (cp == '\\') {
                // skip the next code point always
                if (! cpi.hasNext()) {
                    throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                }
                b.appendCodePoint(cpi.next());
            } else if (cp == '"' || cp == '\'') {
                int q = cp;
                if (! cpi.hasNext()) {
                    throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                }
                for (;;) {
                    cp = cpi.next();
                    if (cp == '\\') {
                        // skip the next code point always
                        if (! cpi.hasNext()) {
                            throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                        }
                        b.appendCodePoint(cpi.next());
                    } else if (cp == q) {
                        break;
                    } else {
                        b.appendCodePoint(cp);
                    }
```

```
                    if (! cpi.hasNext()) {
                        throw NamingLogger.ROOT_LOGGER.invalidJndiName(string);
                    }
                }
            } else if (cp == '/') {
                final String s = b.toString();
                b.setLength(0);
                return s;
            } else {
                b.appendCodePoint(cp);
            }
        }
        final String s = b.toString();
        b.setLength(0);
        hasNext = false;
        return s;
    }
  }
}
```

2.652 wildfly-naming-client 1.0.9.Final

2.653 wildfly-network 6.0.2.Final

2.654 wildfly-openssl-java 1.0.6.Final

2.655 wildfly-openssl-linux-i386 1.0.6.Final

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2.656 wildfly-openssl-linux-x86_64 1.0.6.Final

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For example, on rare occasions, there may be a special need to

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

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

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

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2.688 wildfly-weld-ejb 14.0.1.Final

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2.689 wildfly-weld-jpa 14.0.1.Final

2.689.1 Available under license :

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Version 2.1, February 1999

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

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

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

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

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

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

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

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2.692 wildfly-weld-webservices 14.0.1.Final

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David Megginson, david@megginson.com
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2.713 xnio-api 3.6.5.Final

2.714 xnio-nio 3.5.1.Final

2.715 xnio-nio 3.6.5.Final

2.716 xom 1.2.10

2.717 xsom 2.3.0

2.718 xstream 1.4.10

2.719 yasson 1.0.1

3.1 @types/async 2.0.50

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3.11 apollo-link-dedup 1.0.11

3.12 apollo-link-error 1.1.2

3.13 apollo-link-http 1.5.7

3.14 apollo-link-http-common 0.2.6

3.15 apollo-utilities 1.0.26

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3.16 apparatus 0.0.10

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3.24 clipboard-js 0.3.6

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3.39 glob 6.0.4

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3.40 graceful-fs 4.1.15

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3.41 graphql 14.0.2

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3.42 graphql-tag 2.10.0

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3.43 graphql-tools 4.0.3

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3.46 http-parser-js 0.5.0

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- tests/iojs/test-http-parser-durability.js

This file is from https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js

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"""

- tests/fixtures/*
tests/parallel/*
tests/testpy/*
tests/common.js
tests/test.py
tests/utils.py

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3.47 immutable-tuple 0.4.9

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3.48 inflight 1.0.6

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3.50 invert-kv 1.0.0

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3.51 is-fullwidth-code-point 1.0.0

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3.52 iterall 1.2.2

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3.53 js-tokens 4.0.0

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3.54 json3 3.3.2

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3.55 jsonfile 2.4.0

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3.56 klaw 1.3.1

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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification

// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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3.58 lcid 1.0.0

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3.61 loose-envify 1.4.0

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3.81 source-map 0.1.43

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3.109 yargs 3.32.0

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3.110 zen-observable 0.8.11

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4.2 annotations 3.0.1

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4.3 annotations 13.0

4.4 antlr4-runtime 4.7.1

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4.7 apiguardian-api 1.0.0

4.8 bcprov-jdk15on 1.60

4.9 Bean Validation API 1.1.0.Final

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4.16 dslink 0.20.1

4.16.1 Available under license :

```
package org.dsa.iot.dslink.node;

/**
* Handles various permission levels
* @author Samuel Grenier
*/
public enum Permission {
  NONE("none"),
  READ("read"),
  WRITE("write"),
  CONFIG("config"),
  NEVER("never");

  private final String jsonName;

  Permission(String jsonName) {
    this.jsonName = jsonName;
  }

  /**
```

```
     * @return JSON ready name of the permission
     */
    public String getJsonName() {
        return jsonName;
    }

    /**
     * Converts a string permission received from an endpoint back into a
     * permission enumeration.
     *
     * @param perm Permission string to convert.
     * @return Converted string into an enumeration.
     */
    public static Permission toEnum(String perm) {
        switch (perm) {
            case "none":
                return NONE;
            case "read":
                return READ;
            case "write":
                return WRITE;
            case "config":
                return CONFIG;
            case "never":
                return NEVER;
            default:
                throw new RuntimeException("Unhandled type");
        }
    }
}
```

4.17 graphql-java 11.0

4.18 h2 1.4.195

4.19 HdrHistogram 2.1.10

4.20 httpclient 4.5.2

4.20.1 Available under license :

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4.21 httpcore 4.4.4

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4.25 ignite-slf4j 2.3.0

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4.27 jackson-core 2.9.9

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4.28 jackson-coreutils 1.6

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4.29 jackson-databind 2.9.10.1

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4.30 jackson-dataformat-msgpack 0.8.16

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4.31 jackson-dataformat-yaml 2.9.6

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4.32 java-dataloader 2.1.1

4.33 JavaBeans Activation Framework (JAF) 1.1

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4.35 jcommander 1.72

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4.38 joda-time 2.9.7

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4.42 json-schema-validator 2.2.8

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4.64 msgpack-core 0.8.16

4.65 msgpack-core 0.8.14

4.66 netty-all 4.1.28.Final

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4.80 reactive-streams 1.0.2

4.81 runtime_shared 0.20.1

4.82 rxjava 2.2.6

4.83 simpleclient 0.5.0

4.84 simpleclient_common 0.5.0

4.85 slf4j-api 1.7.25

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4.86 slf4j-ext 1.7.25

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4.91 swagger-annotations 2.0.0-rc4

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```

```
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*/

package io.swagger.v3.oas.annotations.info;

import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
* The annotation may be used in {@link Info#license()} to define a license for the OpenAPI spec.
*
* @see <a target="_new" href="https://github.com/OAI/OpenAPI-
Specification/blob/3.0.1/versions/3.0.1.md#licenseObject">License (OpenAPI specification)</a>
* @see io.swagger.v3.oas.annotations.OpenAPIDefinition
* @see Info
**/
@Target({})
@Retention(RetentionPolicy.RUNTIME)
public @interface License {
  /**
   * The license name used for the API.
   *
   * @return the name of the license
   **/
  String name() default "";

  /**
   * A URL to the license used for the API. MUST be in the format of a URL.
   *
   * @return the URL of the license
   **/
  String url() default "";

}
```

4.92 swagger-compat-spec-parser 1.0.34

4.93 swagger-core 2.0.0-rc4

4.94 swagger-models 2.0.0-rc4

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*/

package io.swagger.v3.oas.models.info;

import java.util.Objects;

/**
* License
*
* @see "https://github.com/OAI/OpenAPI-Specification/blob/3.0.1/versions/3.0.1.md#licenseObject"
*/

public class License {
  private String name = null;
  private String url = null;
  private java.util.Map<String, Object> extensions = null;

  /**
   * returns the name property from a License instance.
   *
   * @return String name
   **/

  public String getName() {
     return name;
  }

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

```
public License name(String name) {
   this.name = name;
   return this;
}

/**
 * returns the url property from a License instance.
 *
 * @return String url
 **/

public String getUrl() {
   return url;
}

public void setUrl(String url) {
   this.url = url;
}

public License url(String url) {
   this.url = url;
   return this;
}

@Override
public boolean equals(java.lang.Object o) {
   if (this == o) {
      return true;
   }
   if (o == null || getClass() != o.getClass()) {
      return false;
   }
   License license = (License) o;
   return Objects.equals(this.name, license.name) &&
         Objects.equals(this.url, license.url) &&
         Objects.equals(this.extensions, license.extensions);
}

@Override
public int hashCode() {
   return Objects.hash(name, url, extensions);
}

public java.util.Map<String, Object> getExtensions() {
   return extensions;
}
```

```
    public void addExtension(String name, Object value) {
        if (name == null || name.isEmpty() || !name.startsWith("x-")) {
            return;
        }
        if (this.extensions == null) {
            this.extensions = new java.util.HashMap<>();
        }
        this.extensions.put(name, value);
    }

    public void setExtensions(java.util.Map<String, Object> extensions) {
        this.extensions = extensions;
    }

    public License extensions(java.util.Map<String, Object> extensions) {
        this.extensions = extensions;
        return this;
    }

    @Override
    public String toString() {
        StringBuilder sb = new StringBuilder();
        sb.append("class License {\n");

        sb.append("    name: ").append(toIndentedString(name)).append("\n");
        sb.append("    url: ").append(toIndentedString(url)).append("\n");
        sb.append("}");
        return sb.toString();
    }

    /**
     * Convert the given object to string with each line indented by 4 spaces
     * (except the first line).
     */
    private String toIndentedString(java.lang.Object o) {
        if (o == null) {
            return "null";
        }
        return o.toString().replace("\n", "\n    ");
    }

}
```

4.95 swagger-parser 2.0.0-rc3

4.96 swagger-parser-core 2.0.0-rc3

4.97 swagger-parser-v2-converter 2.0.0-rc3

4.98 swagger-parser-v3 2.0.0-rc3

4.99 vertx-auth-common 3.5.4

4.100 vertx-auth-jwt 3.5.4

4.101 vertx-bridge-common 3.5.4

4.102 vertx-core 3.5.4

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4.103 vertx-ignite 3.5.4

4.104 vertx-jwt 3.5.4

4.105 vertx-micrometer-metrics 3.5.4

4.106 vertx-rx-java2 3.5.4

4.107 vertx-service-discovery 3.5.4

4.108 vertx-service-factory 3.5.4

4.109 vertx-service-proxy 3.5.4

4.110 vertx-web 3.5.4

4.111 vertx-web-api-contract 3.5.4

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