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1.3 activemq-all 5.14.0

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1.4 amqp-client 5.0.0

1.5 amqp-client 3.6.6

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MPL 1.1

1.6 ANTLR 4 Runtime 4.5.3

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```
<!doctype html>
<!--[if lt IE 9]><html class="ie"><![endif]-->
<!--[if gte IE 9]><!--><html><!--<![endif]-->

<head>
<meta charset="utf-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1"/>
<meta name="viewport" content="width=device-width, initial-scale=1"/>

<title>ANTLR v4 License</title>

<!--[if lt IE 9]><script src="//html5shim.googlecode.com/svn/trunk/html5.js"></script><![endif]-->

<link rel="stylesheet" href="css/fontface/Droid-Sans/stylesheet.css" type="text/css" media="screen" />
<link rel="stylesheet" href="css/fontface/Droid-Serif/stylesheet.css" type="text/css" media="screen" />
<link rel="stylesheet" href="css/fontface/DejaVu-Sans-Mono/stylesheet.css" type="text/css" media="screen" />

<link rel="stylesheet" href="css/antlr.css" type="text/css" media="screen" />

<script type="text/javascript" src="http://ajax.googleapis.com/ajax/libs/jquery/1.7.2/jquery.min.js"></script>
<script src="scripts/selectivizr-min.js"></script>
<script src="scripts/cycle.js"></script>
<script src="scripts/rounded.js"></script>
<script src="scripts/watermark.js"></script>

<script type="text/javascript" src="scripts/lib/jquery.mousewheel-3.0.6.pack.js"></script>
<script type="text/javascript" src="scripts/source/jquery.fancybox.js?v=2.0.6"></script>
<link rel="stylesheet" type="text/css" href="scripts/source/jquery.fancybox.css?v=2.0.6" media="screen" />
```

```

<script>
(function(i,s,o,g,r,a,m){i["GoogleAnalyticsObject"]=r;i[r]=i[r]||function(){
(i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
})(window,document,'script','//www.google-analytics.com/analytics.js','ga');

ga('create', 'UA-1024344-1', 'auto');
ga('send', 'pageview');

</script>

<!-- Start of Woopra Code -->
<script>
(function(){
    var
    t,i,e,n=window,o=document,a=arguments,s="script",r=["config","track","identify","visit","push","call","trackForm",
    "trackClick"],c=function(){var t,i=this;for(i._e=[],t=0;r.length>t;t++)(function(t){i[t]=function(){return
    i._e.push([t].concat(Array.prototype.slice.call(arguments,0))),i}})(r[t]);for(n._w=n._w||{},t=0;a.length>t;t++)n._w[
    a[t]]=n[a[t]]=n[a[t]]||new
    c;i=o.createElement(s),i.async=1,i.src="//static.woopra.com/js/t/5.js",e=o.getElementsByTagName(s)[0],e.parentNo
    de.insertBefore(i,e)
    })("woopra");

    woopra.config({
        domain: 'antlr.org'
    });
    woopra.track();
</script>
<!-- End of Woopra Code -->
</head>

<body>

<header>

<a id="index" href="index.html">ANTLR</a>

<nav>
<script src="scripts/topnav.js"></script>
</nav>

</header>

<div id="wrapper">
<div id="container">

<div id="main">

```

<div id="content">

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```
<li>commit your changes
<li>send a pull request
</ul>
```

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```
</div><!--/content-->
```

```
<div id="sidebar">
  <script src="scripts/leftnav.js"></script>
</div><!--/sidebar-->
```

```
</div><!--/main-->
```

```
</div><!--/container-->
```

```
<div class="clear"><!--necessary nudge--></div>
</div><!--/wrapper-->
```

```
<footer>
  <script src="scripts/bottomnav.js"></script>
</footer>
```

```
<script src="scripts/functions.js"></script>
```

```
</body>
</html>
```

1.7 antlr4 4.5.3

1.7.1 Available under license :

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DSDB

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1.8 antlr4-runtime 4.5.3

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1.9 aopalliance-repackaged 2.2.0

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd

- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.14 apr 1.6.3

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```

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From dso/aix/dso.c:

```

* Based on libdl (dlfcn.c/dlfcn.h) which is
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

- *
- * cvt - IEEE floating point formatting routines.
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1.15 asm-all-repackaged 2.2.0

1.16 aws-java-sdk 1.11.271

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 */
package com.amazonaws.services.glacier.model;
```



```

import javax.annotation.Generated;

/**
 *
 */
@Generated("com.amazonaws:aws-java-sdk-code-generator")
public enum Permission {

    FULL_CONTROL("FULL_CONTROL"),
    WRITE("WRITE"),
    WRITE_ACP("WRITE_ACP"),
    READ("READ"),
    READ_ACP("READ_ACP");

    private String value;

    private Permission(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return this.value;
    }

    /**
     * Use this in place of valueOf.
     *
     * @param value
     *     real value
     * @return Permission corresponding to the value
     *
     * @throws IllegalArgumentException
     *     If the specified value does not map to one of the known values in this enum.
     */
    public static Permission fromValue(String value) {
        if (value == null || "".equals(value)) {
            throw new IllegalArgumentException("Value cannot be null or empty!");
        }

        for (Permission enumEntry : Permission.values()) {
            if (enumEntry.toString().equals(value)) {
                return enumEntry;
            }
        }

        throw new IllegalArgumentException("Cannot create enum from " + value + " value!");
    }
}

```

```
}
}
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```
/*
```

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```

```
*
```

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```

```
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```

```
*
```

```
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```

```
*
```

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```

```
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```

```
* and limitations under the License.
```

```
*/
```

```
package com.amazonaws.services.shield.model;
```

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

```
import javax.annotation.Generated;
```

```
import com.amazonaws.protocol.StructuredPojo;
```

```
import com.amazonaws.protocol.ProtocolMarshaller;
```

```
/**
```

```
* <p>
```

```
* A contributor to the attack and their contribution.
```

```
* </p>
```

```
*
```

```
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/shield-2016-06-02/Contributor" target="_top">AWS
```

```
API
```

```
* Documentation</a>
```

```
*/
```

```

@Generated("com.amazonaws:aws-java-sdk-code-generator")
public class Contributor implements Serializable, Cloneable, StructuredPojo {

    /**
     * <p>
     * The name of the contributor. This is dependent on the <code>AttackPropertyIdentifier</code>. For example, if
     the
     * <code>AttackPropertyIdentifier</code> is <code>SOURCE_COUNTRY</code>, the <code>Name</code>
     could be
     * <code>United States</code>.
     * </p>
     */
    private String name;

    /**
     * <p>
     * The contribution of this contributor expressed in <a>Protection</a> units. For example <code>10,000</code>.
     * </p>
     */
    private Long value;

    /**
     * <p>
     * The name of the contributor. This is dependent on the <code>AttackPropertyIdentifier</code>. For example, if
     the
     * <code>AttackPropertyIdentifier</code> is <code>SOURCE_COUNTRY</code>, the <code>Name</code>
     could be
     * <code>United States</code>.
     * </p>
     *
     * @param name
     * The name of the contributor. This is dependent on the <code>AttackPropertyIdentifier</code>. For
     example,
     * if the <code>AttackPropertyIdentifier</code> is <code>SOURCE_COUNTRY</code>, the
     <code>Name</code> could
     * be <code>United States</code>.
     */

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

    /**
     * <p>
     * The name of the contributor. This is dependent on the <code>AttackPropertyIdentifier</code>. For example, if
     the
     * <code>AttackPropertyIdentifier</code> is <code>SOURCE_COUNTRY</code>, the <code>Name</code>
     could be
     * <code>United States</code>.
     */

```

```

* </p>
*
* @return The name of the contributor. This is dependent on the <code>AttackPropertyIdentifier</code>. For
example,
*     if the <code>AttackPropertyIdentifier</code> is <code>SOURCE_COUNTRY</code>, the
<code>Name</code> could
*     be <code>United States</code>.
*/

public String getName() {
    return this.name;
}

/**
* <p>
* The name of the contributor. This is dependent on the <code>AttackPropertyIdentifier</code>. For example, if
the
* <code>AttackPropertyIdentifier</code> is <code>SOURCE_COUNTRY</code>, the <code>Name</code>
could be
* <code>United States</code>.
* </p>
*
* @param name
*     The name of the contributor. This is dependent on the <code>AttackPropertyIdentifier</code>. For
example,
*     if the <code>AttackPropertyIdentifier</code> is <code>SOURCE_COUNTRY</code>, the
<code>Name</code> could
*     be <code>United States</code>.
* @return Returns a reference to this object so that method calls can be chained together.
*/

public Contributor withName(String name) {
    setName(name);
    return this;
}

/**
* <p>
* The contribution of this contributor expressed in <a>Protection</a> units. For example <code>10,000</code>.
* </p>
*
* @param value
*     The contribution of this contributor expressed in <a>Protection</a> units. For example
<code>10,000</code>
*     .
*/

public void setValue(Long value) {

```

```

    this.value = value;
}

/**
 * <p>
 * The contribution of this contributor expressed in <a>Protection</a> units. For example <code>10,000</code>.
 * </p>
 *
 * @return The contribution of this contributor expressed in <a>Protection</a> units. For example
 *         <code>10,000</code>.
 */

public Long getValue() {
    return this.value;
}

/**
 * <p>
 * The contribution of this contributor expressed in <a>Protection</a> units. For example <code>10,000</code>.
 * </p>
 *
 * @param value
 *         The contribution of this contributor expressed in <a>Protection</a> units. For example
 *         <code>10,000</code>
 *
 * @return Returns a reference to this object so that method calls can be chained together.
 */

public Contributor withValue(Long value) {
    setValue(value);
    return this;
}

/**
 * Returns a string representation of this object; useful for testing and debugging.
 *
 * @return A string representation of this object.
 *
 * @see java.lang.Object#toString()
 */
@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("{");
    if (getName() != null)
        sb.append("Name: ").append(getName()).append(",");
    if (getValue() != null)
        sb.append("Value: ").append(getValue());
}

```

```

        sb.append("{}");
        return sb.toString();
    }

```

@Override

```

public boolean equals(Object obj) {
    if (this == obj)
        return true;
    if (obj == null)
        return false;

    if (obj instanceof Contributor == false)
        return false;
    Contributor other = (Contributor) obj;
    if (other.getName() == null ^ this.getName() == null)
        return false;
    if (other.getName() != null && other.getName().equals(this.getName()) == false)
        return false;
    if (other.getValue() == null ^ this.getValue() == null)
        return false;
    if (other.getValue() != null && other.getValue().equals(this.getValue()) == false)
        return false;
    return true;
}

```

@Override

```

public int hashCode() {
    final int prime = 31;
    int hashCode = 1;

    hashCode = prime * hashCode + ((getName() == null) ? 0 : getName().hashCode());
    hashCode = prime * hashCode + ((getValue() == null) ? 0 : getValue().hashCode());
    return hashCode;
}

```

@Override

```

public Contributor clone() {
    try {
        return (Contributor) super.clone();
    } catch (CloneNotSupportedException e) {
        throw new IllegalStateException("Got a CloneNotSupportedException from Object.clone() " + "even though we're Cloneable!", e);
    }
}

```

@com.amazonaws.annotation.SdkInternalApi

@Override

```

public void marshall(ProtocolMarshaller protocolMarshaller) {

```

```
com.amazonaws.services.shield.model.transform.ContributorMarshaller.getInstance().marshall(this,
protocolMarshaller);
}
}
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```

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*/

```
package com.amazonaws.services.greengrass.model;
```

```
import javax.annotation.Generated;
```

```

/**
 * Type of permissions a function could have to access a resource.
 */
@Generated("com.amazonaws:aws-java-sdk-code-generator")
public enum Permission {

    Ro("ro"),
    Rw("rw");

    private String value;

    private Permission(String value) {
        this.value = value;
    }

    @Override
    public String toString() {
        return this.value;
    }

/**
 * Use this in place of valueOf.
 *
 * @param value
 *     real value
 * @return Permission corresponding to the value
 *
 * @throws IllegalArgumentException
 *     If the specified value does not map to one of the known values in this enum.
 */
    public static Permission fromValue(String value) {
        if (value == null || "".equals(value)) {
            throw new IllegalArgumentException("Value cannot be null or empty!");
        }

        for (Permission enumEntry : Permission.values()) {
            if (enumEntry.toString().equals(value)) {
                return enumEntry;
            }
        }

        throw new IllegalArgumentException("Cannot create enum from " + value + " value!");
    }
}
/**
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 */

```

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 * CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
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 */
 package com.amazonaws.services.opsworks.model;

```
import java.io.Serializable;
import javax.annotation.Generated;
import com.amazonaws.protocol.StructuredPojo;
import com.amazonaws.protocol.ProtocolMarshaller;
```

```
/**
 * <p>
 * Describes stack or user permissions.
 * </p>
 *
 * @see <a href="http://docs.aws.amazon.com/goto/WebAPI/opsworks-2013-02-18/Permission"
 target="_top">AWS API
 * Documentation</a>
 */
@Generated("com.amazonaws:aws-java-sdk-code-generator")
public class Permission implements Serializable, Cloneable, StructuredPojo {
```

```
/**
 * <p>
 * A stack ID.
 * </p>
 */
private String stackId;
/**
 * <p>
 * The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more
 information about
 * IAM ARNs, see <a href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers</a>.
 * </p>
 */
private String iamUserArn;
/**
 * <p>
```

```

* Whether the user can use SSH.
* </p>
*/
private Boolean allowSsh;
/**
* <p>
* Whether the user can use <b>sudo</b>.
* </p>
*/
private Boolean allowSudo;
/**
* <p>
* The user's permission level, which must be the following:
* </p>
* <ul>
* <li>
* <p>
* <code>deny</code>
* </p>
* </li>
* <li>
* <p>
* <code>show</code>
* </p>
* </li>
* <li>
* <p>
* <code>deploy</code>
* </p>
* </li>
* <li>
* <p>
* <code>manage</code>
* </p>
* </li>
* <li>
* <p>
* <code>iam_only</code>
* </p>
* </li>
* </ul>
* <p>
* For more information on the permissions associated with these levels, see <a
* href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing User
* Permissions</a>
* </p>
*/
private String level;

```

```

/**
 * <p>
 * A stack ID.
 * </p>
 *
 * @param stackId
 *     A stack ID.
 */

public void setStackId(String stackId) {
    this.stackId = stackId;
}

/**
 * <p>
 * A stack ID.
 * </p>
 *
 * @return A stack ID.
 */

public String getStackId() {
    return this.stackId;
}

/**
 * <p>
 * A stack ID.
 * </p>
 *
 * @param stackId
 *     A stack ID.
 * @return Returns a reference to this object so that method calls can be chained together.
 */

public Permission withStackId(String stackId) {
    setStackId(stackId);
    return this;
}

/**
 * <p>
 * The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more
information about
 * IAM ARNs, see <a href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
 * Identifiers</a>.
 * </p>

```

```

*
* @param iamUserArn
*   The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more
information
*   about IAM ARNs, see <a
href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
*   Identifiers</a>.
*/

public void setIamUserArn(String iamUserArn) {
    this.iamUserArn = iamUserArn;
}

/**
* <p>
* The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more
information about
* IAM ARNs, see <a href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
* Identifiers</a>.
* </p>
*
* @return The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For
more information
*   about IAM ARNs, see <a
href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using Identifiers</a>.
*/

public String getIamUserArn() {
    return this.iamUserArn;
}

/**
* <p>
* The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more
information about
* IAM ARNs, see <a href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
* Identifiers</a>.
* </p>
*
* @param iamUserArn
*   The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more
information
*   about IAM ARNs, see <a
href="http://docs.aws.amazon.com/IAM/latest/UserGuide/Using_Identifiers.html">Using
*   Identifiers</a>.
* @return Returns a reference to this object so that method calls can be chained together.
*/

```

```

public Permission withIamUserArn(String iamUserArn) {
    setIamUserArn(iamUserArn);
    return this;
}

/**
 * <p>
 * Whether the user can use SSH.
 * </p>
 *
 * @param allowSsh
 *     Whether the user can use SSH.
 */

public void setAllowSsh(Boolean allowSsh) {
    this.allowSsh = allowSsh;
}

/**
 * <p>
 * Whether the user can use SSH.
 * </p>
 *
 * @return Whether the user can use SSH.
 */

public Boolean getAllowSsh() {
    return this.allowSsh;
}

/**
 * <p>
 * Whether the user can use SSH.
 * </p>
 *
 * @param allowSsh
 *     Whether the user can use SSH.
 * @return Returns a reference to this object so that method calls can be chained together.
 */

public Permission withAllowSsh(Boolean allowSsh) {
    setAllowSsh(allowSsh);
    return this;
}

/**
 * <p>
 * Whether the user can use SSH.

```

```

* </p>
*
* @return Whether the user can use SSH.
*/

public Boolean isAllowSsh() {
    return this.allowSsh;
}

/**
* <p>
* Whether the user can use <b>sudo</b>.
* </p>
*
* @param allowSudo
*     Whether the user can use <b>sudo</b>.
*/

public void setAllowSudo(Boolean allowSudo) {
    this.allowSudo = allowSudo;
}

/**
* <p>
* Whether the user can use <b>sudo</b>.
* </p>
*
* @return Whether the user can use <b>sudo</b>.
*/

public Boolean getAllowSudo() {
    return this.allowSudo;
}

/**
* <p>
* Whether the user can use <b>sudo</b>.
* </p>
*
* @param allowSudo
*     Whether the user can use <b>sudo</b>.
* @return Returns a reference to this object so that method calls can be chained together.
*/

public Permission withAllowSudo(Boolean allowSudo) {
    setAllowSudo(allowSudo);
    return this;
}

```



```

/**
 * <p>
 * Whether the user can use <b>sudo</b>.
 * </p>
 *
 * @return Whether the user can use <b>sudo</b>.
 */

public Boolean isAllowSudo() {
    return this.allowSudo;
}

/**
 * <p>
 * The user's permission level, which must be the following:
 * </p>
 * <ul>
 * <li>
 * <p>
 * <code>deny</code>
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>show</code>
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>deploy</code>
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>manage</code>
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>iam_only</code>
 * </p>
 * </li>
 * </ul>
 * <p>
 * For more information on the permissions associated with these levels, see <a
 * href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing User
 * Permissions</a>

```

```

* </p>
*
* @param level
*   The user's permission level, which must be the following:</p>
*   <ul>
*     <li>
*       <p>
*         <code>deny</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>show</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>deploy</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>manage</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>iam_only</code>
*       </p>
*     </li>
*   </ul>
*   <p>
*     For more information on the permissions associated with these levels, see <a
*     href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
User
*   Permissions</a>
*/

```

```

public void setLevel(String level) {
    this.level = level;
}

```

```

/**
* <p>
* The user's permission level, which must be the following:
* </p>
* <ul>
* <li>

```

```

* <p>
* <code>deny</code>
* </p>
* </li>
* <li>
* <p>
* <code>show</code>
* </p>
* </li>
* <li>
* <p>
* <code>deploy</code>
* </p>
* </li>
* <li>
* <p>
* <code>manage</code>
* </p>
* </li>
* <li>
* <p>
* <code>iam_only</code>
* </p>
* </li>
* </ul>
* <p>
* For more information on the permissions associated with these levels, see <a
* href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing User
* Permissions</a>
* </p>
*
* @return The user's permission level, which must be the following:</p>
* <ul>
* <li>
* <p>
* <code>deny</code>
* </p>
* </li>
* <li>
* <p>
* <code>show</code>
* </p>
* </li>
* <li>
* <p>
* <code>deploy</code>
* </p>
* </li>

```

```

*   <li>
*   <p>
*   <code>manage</code>
*   </p>
*   </li>
*   <li>
*   <p>
*   <code>iam_only</code>
*   </p>
*   </li>
*   </ul>
*   <p>
*   For more information on the permissions associated with these levels, see <a
*   href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
User
*   Permissions</a>
*/

```

```

public String getLevel() {
    return this.level;
}

```

```

/**
* <p>
* The user's permission level, which must be the following:
* </p>
* <ul>
* <li>
* <p>
* <code>deny</code>
* </p>
* </li>
* <li>
* <p>
* <code>show</code>
* </p>
* </li>
* <li>
* <p>
* <code>deploy</code>
* </p>
* </li>
* <li>
* <p>
* <code>manage</code>
* </p>
* </li>
* </ul>

```

```

* <p>
* <code>iam_only</code>
* </p>
* </li>
* </ul>
* <p>
* For more information on the permissions associated with these levels, see <a
* href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing User
* Permissions</a>
* </p>
*
* @param level
*   The user's permission level, which must be the following:</p>
*   <ul>
*     <li>
*       <p>
*         <code>deny</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>show</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>deploy</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>manage</code>
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>iam_only</code>
*       </p>
*     </li>
*   </ul>
*   <p>
*     For more information on the permissions associated with these levels, see <a
*     href="http://docs.aws.amazon.com/opsworks/latest/userguide/opsworks-security-users.html">Managing
User
*     Permissions</a>
* @return Returns a reference to this object so that method calls can be chained together.
*/

```

```

public Permission withLevel(String level) {
    setLevel(level);
    return this;
}

/**
 * Returns a string representation of this object; useful for testing and debugging.
 *
 * @return A string representation of this object.
 *
 * @see java.lang.Object#toString()
 */
@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("{}");
    if (getStackId() != null)
        sb.append("StackId: ").append(getStackId()).append(",");
    if (getIamUserArn() != null)
        sb.append("IamUserArn: ").append(getIamUserArn()).append(",");
    if (getAllowSsh() != null)
        sb.append("AllowSsh: ").append(getAllowSsh()).append(",");
    if (getAllowSudo() != null)
        sb.append("AllowSudo: ").append(getAllowSudo()).append(",");
    if (getLevel() != null)
        sb.append("Level: ").append(getLevel());
    sb.append("}");
    return sb.toString();
}

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

    if (obj instanceof Permission == false)
        return false;
    Permission other = (Permission) obj;
    if (other.getStackId() == null ^ this.getStackId() == null)
        return false;
    if (other.getStackId() != null && other.getStackId().equals(this.getStackId()) == false)
        return false;
    if (other.getIamUserArn() == null ^ this.getIamUserArn() == null)
        return false;
    if (other.getIamUserArn() != null && other.getIamUserArn().equals(this.getIamUserArn()) == false)
        return false;
}

```

```

    if (other.getAllowSsh() == null ^ this.getAllowSsh() == null)
        return false;
    if (other.getAllowSsh() != null && other.getAllowSsh().equals(this.getAllowSsh()) == false)
        return false;
    if (other.getAllowSudo() == null ^ this.getAllowSudo() == null)
        return false;
    if (other.getAllowSudo() != null && other.getAllowSudo().equals(this.getAllowSudo()) == false)
        return false;
    if (other.getLevel() == null ^ this.getLevel() == null)
        return false;
    if (other.getLevel() != null && other.getLevel().equals(this.getLevel()) == false)
        return false;
    return true;
}

@Override
public int hashCode() {
    final int prime = 31;
    int hashCode = 1;

    hashCode = prime * hashCode + ((getStackId() == null) ? 0 : getStackId().hashCode());
    hashCode = prime * hashCode + ((getIamUserArn() == null) ? 0 : getIamUserArn().hashCode());
    hashCode = prime * hashCode + ((getAllowSsh() == null) ? 0 : getAllowSsh().hashCode());
    hashCode = prime * hashCode + ((getAllowSudo() == null) ? 0 : getAllowSudo().hashCode());
    hashCode = prime * hashCode + ((getLevel() == null) ? 0 : getLevel().hashCode());
    return hashCode;
}

@Override
public Permission clone() {
    try {
        return (Permission) super.clone();
    } catch (CloneNotSupportedException e) {
        throw new IllegalStateException("Got a CloneNotSupportedException from Object.clone() " + "even though we're Cloneable!", e);
    }
}

@com.amazonaws.annotation.SdkInternalApi
@Override
public void marshall(ProtocolMarshaller protocolMarshaller) {
    com.amazonaws.services.opsworks.model.transform.PermissionMarshaller.getInstance().marshall(this, protocolMarshaller);
}
}
/*
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 *

```

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- * on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
- * express or implied. See the License for the specific language governing
- * permissions and limitations under the License.

*/

package com.amazonaws.services.s3.model;

/**

- * Specifies constants defining an access permission,
- * as granted to grantees in an
- * {@link AccessControlList}. Only a limited set of permission are available;
- * each one is represented as a value in this enumeration.

*/

public enum Permission {

/**

- * Provides READ, WRITE, READ_ACP, and WRITE_ACP permissions.

- * <p>

- * It does not convey additional rights and is provided only for

- * convenience.

- * </p>

- */

FullControl("FULL_CONTROL", "x-amz-grant-full-control"),

/**

- * Grants permission to list the bucket when applied to a bucket.

- * Grants permission to read object data

- * and/or metadata when applied to an object.

- */

Read("READ", "x-amz-grant-read"),

/**

- * Grants permission to create, overwrite, and

- * delete any objects in the bucket.

- * <p>

- * This permission is not supported for objects.

- * </p>

- */

Write("WRITE", "x-amz-grant-write"),

/**

- * Grants permission to read the ACL for the applicable bucket or object.


```

* <p>
* The owner of a bucket or object always implicitly has this permission.
* </p>
*/
ReadAcp("READ_ACP", "x-amz-grant-read-acp"),

/**
* Gives permission to overwrite the ACP for the applicable bucket or
* object.
* <p>
* The owner of a bucket or object always has this permission implicitly.
* </p>
* <p>
* Granting this permission is equivalent to granting <code>FULL_CONTROL</code>because
* the grant recipient can make any changes to the ACP.
* </p>
*/
WriteAcp("WRITE_ACP", "x-amz-grant-write-acp");

private String permissionString;
private String headerName;

private Permission(String permissionString, String headerName) {
    this.permissionString = permissionString;
    this.headerName = headerName;
}

/**
* Returns the name of the header used to grant this permission.
*/
public String getHeaderName() {
    return headerName;
}

/**
* Gets the string representation of this permission object as defined by
* Amazon S3, eg. <code>FULL_CONTROL</code>.
*
* @return The string representation of this permission object as defined by
*         Amazon S3, eg. <code>FULL_CONTROL</code>.
*/
public String toString() {
    return permissionString;
}

/**
* Returns the {@link Permission} enumeration value representing the specified Amazon
* S3 Region ID string. If specified string doesn't map to a known Amazon S3

```

```

* Region, returns <code>null</code>.
*
* @param str
*     A string representation of an Amazon S3 permission, eg.
*     <code>FULL_CONTROL</code>
*
* @return The { @link Permission } object represented by the given permission string,
*     Returns <code>null</code> if the string isn't a valid representation
*     of an Amazon S3
*     permission.
*/
public static Permission parsePermission(String str) {
    for (Permission permission : Permission.values()) {
        if (permission.permissionString.equals(str)) {
            return permission;
        }
    }

    return null;
}

}
/*
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*
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with
* the License. A copy of the License is located at
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* http://aws.amazon.com/apache2.0
*
* or in the "license" file accompanying this file. This file is distributed on an "AS IS" BASIS, WITHOUT
WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing
permissions
* and limitations under the License.
*/
package com.amazonaws.services.elastictranscoder.model;

import java.io.Serializable;
import javax.annotation.Generated;
import com.amazonaws.protocol.StructuredPojo;
import com.amazonaws.protocol.ProtocolMarshaller;

/**
* <p>
* The <code>Permission</code> structure.
* </p>

```

```

*/
@Generated("com.amazonaws:aws-java-sdk-code-generator")
public class Permission implements Serializable, Cloneable, StructuredPojo {

    /**
     * <p>
     * The type of value that appears in the Grantee object:
     * </p>
     * <ul>
     * <li>
     * <p>
     * <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for an
     * Amazon CloudFront distribution.
     * </p>
     * <important>
     * <p>
     * A canonical user ID is not the same as an AWS account number.
     * </p>
     * </important></li>
     * <li>
     * <p>
     * <code>Email</code>: The registered email address of an AWS account.
     * </p>
     * </li>
     * <li>
     * <p>
     * <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>,
     * <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.
     * </p>
     * </li>
     * </ul>
     */
    private String granteeType;
    /**
     * <p>
     * The AWS user or group that you want to have access to transcoded files and playlists. To identify the user or
     * group, you can specify the canonical user ID for an AWS account, an origin access identity for a CloudFront
     * distribution, the registered email address of an AWS account, or a predefined Amazon S3 group.
     * </p>
     */
    private String grantee;
    /**
     * <p>
     * The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:
     * </p>
     * <ul>
     * <li>
     * <p>

```

```

* <code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic
Transcoder adds
* to the Amazon S3 bucket.
* </p>
* </li>
* <li>
* <p>
* <code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds
to the
* Amazon S3 bucket.
* </p>
* </li>
* <li>
* <p>
* <code>WRITE_ACP</code>: The grantee can write the ACL for the thumbnails that Elastic Transcoder adds to
the
* Amazon S3 bucket.
* </p>
* </li>
* <li>
* <p>
* <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and WRITE_ACP permissions for
the thumbnails that
* Elastic Transcoder adds to the Amazon S3 bucket.
* </p>
* </li>
* </ul>
*/
private com.amazonaws.internal.SdkInternalList<String> access;

/**
* <p>
* The type of value that appears in the Grantee object:
* </p>
* <ul>
* <li>
* <p>
* <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for an
* Amazon CloudFront distribution.
* </p>
* <important>
* <p>
* A canonical user ID is not the same as an AWS account number.
* </p>
* </important></li>
* <li>
* <p>
* <code>Email</code>: The registered email address of an AWS account.

```

```

* </p>
* </li>
* <li>
* <p>
* <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>,
* <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.
* </p>
* </li>
* </ul>
*
* @param granteeType
*   The type of value that appears in the Grantee object:</p>
*   <ul>
*   <li>
*   <p>
*   <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for
*   an Amazon CloudFront distribution.
*   </p>
*   <important>
*   <p>
*   A canonical user ID is not the same as an AWS account number.
*   </p>
*   </important></li>
*   <li>
*   <p>
*   <code>Email</code>: The registered email address of an AWS account.
*   </p>
*   </li>
*   <li>
*   <p>
*   <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>,
*   <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.
*   </p>
*   </li>
* </ul>
*/

```

```

public void setGranteeType(String granteeType) {
    this.granteeType = granteeType;
}

```

```

/**
* <p>
* The type of value that appears in the Grantee object:
* </p>
* <ul>
* <li>
* <p>
* <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for an

```

```

* Amazon CloudFront distribution.
* </p>
* <important>
* <p>
* A canonical user ID is not the same as an AWS account number.
* </p>
* </important></li>
* <li>
* <p>
* <code>Email</code>: The registered email address of an AWS account.
* </p>
* </li>
* <li>
* <p>
* <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>,
* <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.
* </p>
* </li>
* </ul>
*
* @return The type of value that appears in the Grantee object:</p>
*   <ul>
*     <li>
*       <p>
*         <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for
*         an Amazon CloudFront distribution.
*       </p>
*       <important>
*       <p>
*         A canonical user ID is not the same as an AWS account number.
*       </p>
*     </important></li>
*     <li>
*       <p>
*         <code>Email</code>: The registered email address of an AWS account.
*       </p>
*     </li>
*     <li>
*       <p>
*         <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>,
*         <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.
*       </p>
*     </li>
*   </ul>
*/

```

```

public String getGranteeType() {
    return this.granteeType;
}

```

```

/**
 * <p>
 * The type of value that appears in the Grantee object:
 * </p>
 * <ul>
 * <li>
 * <p>
 * <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for an
 * Amazon CloudFront distribution.
 * </p>
 * <important>
 * <p>
 * A canonical user ID is not the same as an AWS account number.
 * </p>
 * </important></li>
 * <li>
 * <p>
 * <code>Email</code>: The registered email address of an AWS account.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>,
 * <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.
 * </p>
 * </li>
 * </ul>
 *
 * @param granteeType
 * The type of value that appears in the Grantee object:</p>
 * <ul>
 * <li>
 * <p>
 * <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for
 * an Amazon CloudFront distribution.
 * </p>
 * <important>
 * <p>
 * A canonical user ID is not the same as an AWS account number.
 * </p>
 * </important></li>
 * <li>
 * <p>
 * <code>Email</code>: The registered email address of an AWS account.
 * </p>
 * </li>
 * <li>

```

```

* <p>
* <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>,
* <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.
* </p>
* </li>
* @return Returns a reference to this object so that method calls can be chained together.
*/

public Permission withGranteeType(String granteeType) {
    setGranteeType(granteeType);
    return this;
}

/**
* <p>
* The AWS user or group that you want to have access to transcoded files and playlists. To identify the user or
* group, you can specify the canonical user ID for an AWS account, an origin access identity for a CloudFront
* distribution, the registered email address of an AWS account, or a predefined Amazon S3 group.
* </p>
*
* @param grantee
* The AWS user or group that you want to have access to transcoded files and playlists. To identify the user
* or group, you can specify the canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the registered email address of an AWS account, or a predefined Amazon S3
group.
*/

public void setGrantee(String grantee) {
    this.grantee = grantee;
}

/**
* <p>
* The AWS user or group that you want to have access to transcoded files and playlists. To identify the user or
* group, you can specify the canonical user ID for an AWS account, an origin access identity for a CloudFront
* distribution, the registered email address of an AWS account, or a predefined Amazon S3 group.
* </p>
*
* @return The AWS user or group that you want to have access to transcoded files and playlists. To identify the
* user or group, you can specify the canonical user ID for an AWS account, an origin access identity for a
* CloudFront distribution, the registered email address of an AWS account, or a predefined Amazon S3
group.
*/

public String getGrantee() {
    return this.grantee;
}

```



```

/**
 * <p>
 * The AWS user or group that you want to have access to transcoded files and playlists. To identify the user or
 * group, you can specify the canonical user ID for an AWS account, an origin access identity for a CloudFront
 * distribution, the registered email address of an AWS account, or a predefined Amazon S3 group.
 * </p>
 *
 * @param grantee
 * The AWS user or group that you want to have access to transcoded files and playlists. To identify the user
 * or group, you can specify the canonical user ID for an AWS account, an origin access identity for a
 * CloudFront distribution, the registered email address of an AWS account, or a predefined Amazon S3
group.
 * @return Returns a reference to this object so that method calls can be chained together.
 */

public Permission withGrantee(String grantee) {
    setGrantee(grantee);
    return this;
}

/**
 * <p>
 * The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:
 * </p>
 * <ul>
 * <li>
 * <p>
 * <code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic
Transcoder adds
 * to the Amazon S3 bucket.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds
to the
 * Amazon S3 bucket.
 * </p>
 * </li>
 * <li>
 * <p>
 * <code>WRITE_ACP</code>: The grantee can write the ACL for the thumbnails that Elastic Transcoder adds to
the
 * Amazon S3 bucket.
 * </p>
 * </li>
 * </ul>
 * <p>

```

* `FULL_CONTROL`: The grantee has READ, READ_ACP, and WRITE_ACP permissions for the thumbnails that

* Elastic Transcoder adds to the Amazon S3 bucket.

* `</p>`

* ``

* ``

*

* @return The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:

* `</p>`

* ``

* ``

* `<p>`

* `READ`: The grantee can read the thumbnails and metadata for thumbnails that Elastic

* Transcoder adds to the Amazon S3 bucket.

* `</p>`

* ``

* ``

* `<p>`

* `READ_ACP`: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds to

* the Amazon S3 bucket.

* `</p>`

* ``

* ``

* `<p>`

* `WRITE_ACP`: The grantee can write the ACL for the thumbnails that Elastic Transcoder adds to

* the Amazon S3 bucket.

* `</p>`

* ``

* ``

* `<p>`

* `FULL_CONTROL`: The grantee has READ, READ_ACP, and WRITE_ACP permissions for the thumbnails

* that Elastic Transcoder adds to the Amazon S3 bucket.

* `</p>`

* ``

*/

```
public java.util.List<String> getAccess() {
    if (access == null) {
        access = new com.amazonaws.internal.SdkInternalList<String>();
    }
    return access;
}
```

/**

* `<p>`

- * The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:

</p>

-
-

</p>

- * <code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.

</p>

-
-

</p>

- * <code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.

</p>

-
-

</p>

- * <code>WRITE_ACP</code>: The grantee can write the ACL for the thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.

</p>

-
-

</p>

- * <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and WRITE_ACP permissions for the thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.

</p>

-

- * @param access
- * The permission that you want to give to the AWS user that is listed in Grantee. Valid values include: </p>

-
-

</p>

- * <code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.

</p>

-
-

</p>

- * <code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds to the Amazon S3 bucket.

```

* </p>
* </li>
* <li>
* <p>
* <code>WRITE_ACP</code>: The grantee can write the ACL for the thumbnails that Elastic Transcoder
adds to
* the Amazon S3 bucket.
* </p>
* </li>
* <li>
* <p>
* <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and WRITE_ACP permissions
for the thumbnails
* that Elastic Transcoder adds to the Amazon S3 bucket.
* </p>
* </li>
*/

```

```

public void setAccess(java.util.Collection<String> access) {
    if (access == null) {
        this.access = null;
        return;
    }

    this.access = new com.amazonaws.internal.SdkInternalList<String>(access);
}

```

```

/**
* <p>
* The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:
* </p>
* <ul>
* <li>
* <p>
* <code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic
Transcoder adds
* to the Amazon S3 bucket.
* </p>
* </li>
* <li>
* <p>
* <code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds
to the
* Amazon S3 bucket.
* </p>
* </li>
* <li>
* <p>

```

* `WRITE_ACP`: The grantee can write the ACL for the thumbnails that Elastic Transcoder adds to the

- * Amazon S3 bucket.

*

- *

*

* `FULL_CONTROL`: The grantee has `READ`, `READ_ACP`, and `WRITE_ACP` permissions for the thumbnails that

- * Elastic Transcoder adds to the Amazon S3 bucket.

*

- *

*

* **NOTE:** This method appends the values to the existing list (if any). Use

* {`@link #setAccess(java.util.Collection)`} or {`@link #withAccess(java.util.Collection)`} if you want to override the

* existing values.

*

*

* @param access

* The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:

- *

- *

*

* `READ`: The grantee can read the thumbnails and metadata for thumbnails that Elastic Transcoder

adds to

- * the Amazon S3 bucket.

*

- *

- *

*

* `READ_ACP`: The grantee can read the object ACL for thumbnails that Elastic Transcoder

adds to

- * the Amazon S3 bucket.

*

- *

- *

*

* `WRITE_ACP`: The grantee can write the ACL for the thumbnails that Elastic Transcoder

adds to

- * the Amazon S3 bucket.

*

- *

- *

*

* `FULL_CONTROL`: The grantee has `READ`, `READ_ACP`, and `WRITE_ACP` permissions for the thumbnails

```

* that Elastic Transcoder adds to the Amazon S3 bucket.
* </p>
* </li>
* @return Returns a reference to this object so that method calls can be chained together.
*/

```

```

public Permission withAccess(String... access) {
    if (this.access == null) {
        setAccess(new com.amazonaws.internal.SdkInternalList<String>(access.length));
    }
    for (String ele : access) {
        this.access.add(ele);
    }
    return this;
}

```

```

/**

```

```

* <p>

```

```

* The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:

```

```

* </p>

```

```

* <ul>

```

```

* <li>

```

```

* <p>

```

```

* <code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic
Transcoder adds

```

```

* to the Amazon S3 bucket.

```

```

* </p>

```

```

* </li>

```

```

* <li>

```

```

* <p>

```

```

* <code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds
to the

```

```

* Amazon S3 bucket.

```

```

* </p>

```

```

* </li>

```

```

* <li>

```

```

* <p>

```

```

* <code>WRITE_ACP</code>: The grantee can write the ACL for the thumbnails that Elastic Transcoder adds to
the

```

```

* Amazon S3 bucket.

```

```

* </p>

```

```

* </li>

```

```

* <li>

```

```

* <p>

```

```

* <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and WRITE_ACP permissions for
the thumbnails that

```

```

* Elastic Transcoder adds to the Amazon S3 bucket.

```

```

* </p>

```

```

* </li>
* </ul>
*
* @param access
*     The permission that you want to give to the AWS user that is listed in Grantee. Valid values include: </p>
*     <ul>
*     <li>
*     <p>
*     <code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic
Transcoder
*     adds to the Amazon S3 bucket.
*     </p>
*     </li>
*     <li>
*     <p>
*     <code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder
adds to
*     the Amazon S3 bucket.
*     </p>
*     </li>
*     <li>
*     <p>
*     <code>WRITE_ACP</code>: The grantee can write the ACL for the thumbnails that Elastic Transcoder
adds to
*     the Amazon S3 bucket.
*     </p>
*     </li>
*     <li>
*     <p>
*     <code>FULL_CONTROL</code>: The grantee has READ, READ_ACP, and WRITE_ACP permissions
for the thumbnails
*     that Elastic Transcoder adds to the Amazon S3 bucket.
*     </p>
*     </li>
* @return Returns a reference to this object so that method calls can be chained together.
*/

public Permission withAccess(java.util.Collection<String> access) {
    setAccess(access);
    return this;
}

/**
 * Returns a string representation of this object; useful for testing and debugging.
 *
 * @return A string representation of this object.
 *
 * @see java.lang.Object#toString()

```

```

*/
@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    sb.append("{}");
    if (getGranteeType() != null)
        sb.append("GranteeType: ").append(getGranteeType()).append(",");
    if (getGrantee() != null)
        sb.append("Grantee: ").append(getGrantee()).append(",");
    if (getAccess() != null)
        sb.append("Access: ").append(getAccess());
    sb.append("{}");
    return sb.toString();
}

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

    if (obj instanceof Permission == false)
        return false;
    Permission other = (Permission) obj;
    if (other.getGranteeType() == null ^ this.getGranteeType() == null)
        return false;
    if (other.getGranteeType() != null && other.getGranteeType().equals(this.getGranteeType()) == false)
        return false;
    if (other.getGrantee() == null ^ this.getGrantee() == null)
        return false;
    if (other.getGrantee() != null && other.getGrantee().equals(this.getGrantee()) == false)
        return false;
    if (other.getAccess() == null ^ this.getAccess() == null)
        return false;
    if (other.getAccess() != null && other.getAccess().equals(this.getAccess()) == false)
        return false;
    return true;
}

@Override
public int hashCode() {
    final int prime = 31;
    int hashCode = 1;

    hashCode = prime * hashCode + ((getGranteeType() == null) ? 0 : getGranteeType().hashCode());
    hashCode = prime * hashCode + ((getGrantee() == null) ? 0 : getGrantee().hashCode());
    hashCode = prime * hashCode + ((getAccess() == null) ? 0 : getAccess().hashCode());
}

```



```

        return hashCode;
    }

    @Override
    public Permission clone() {
        try {
            return (Permission) super.clone();
        } catch (CloneNotSupportedException e) {
            throw new IllegalStateException("Got a CloneNotSupportedException from Object.clone() " + "even though
we're Cloneable!", e);
        }
    }

    @com.amazonaws.annotation.SdkInternalApi
    @Override
    public void marshall(ProtocolMarshaller protocolMarshaller) {
        com.amazonaws.services.elastictranscoder.model.transform.PermissionMarshaller.getInstance().marshall(this,
protocolMarshaller);
    }
}

```

1.17 aws-java-sdk-cloudwatch 1.11.271

1.18 aws-java-sdk-core 1.11.271

1.19 aws-java-sdk-ec2 1.11.271

1.20 aws-java-sdk-logs 1.11.271

1.21 aws-java-sdk-s3 1.11.271

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*/

package com.amazonaws.services.s3.model;

/**

- * Specifies constants defining an access permission,
- * as granted to grantees in an
- * {@link AccessControlList}. Only a limited set of permission are available;
- * each one is represented as a value in this enumeration.

*/

public enum Permission {

/**

- * Provides READ, WRITE, READ_ACP, and WRITE_ACP permissions.

- * <p>

- * It does not convey additional rights and is provided only for
- * convenience.

- * </p>

- */

FullControl("FULL_CONTROL", "x-amz-grant-full-control"),

/**

- * Grants permission to list the bucket when applied to a bucket.

- * Grants permission to read object data

- * and/or metadata when applied to an object.

- */

Read("READ", "x-amz-grant-read"),

/**

- * Grants permission to create, overwrite, and

- * delete any objects in the bucket.

- * <p>

- * This permission is not supported for objects.

- * </p>

- */

Write("WRITE", "x-amz-grant-write"),

/**

- * Grants permission to read the ACL for the applicable bucket or object.

```

* <p>
* The owner of a bucket or object always implicitly has this permission.
* </p>
*/
ReadAcp("READ_ACP", "x-amz-grant-read-acp"),

/**
* Gives permission to overwrite the ACP for the applicable bucket or
* object.
* <p>
* The owner of a bucket or object always has this permission implicitly.
* </p>
* <p>
* Granting this permission is equivalent to granting <code>FULL_CONTROL</code>because
* the grant recipient can make any changes to the ACP.
* </p>
*/
WriteAcp("WRITE_ACP", "x-amz-grant-write-acp");

private String permissionString;
private String headerName;

private Permission(String permissionString, String headerName) {
    this.permissionString = permissionString;
    this.headerName = headerName;
}

/**
* Returns the name of the header used to grant this permission.
*/
public String getHeaderName() {
    return headerName;
}

/**
* Gets the string representation of this permission object as defined by
* Amazon S3, eg. <code>FULL_CONTROL</code>.
*
* @return The string representation of this permission object as defined by
*         Amazon S3, eg. <code>FULL_CONTROL</code>.
*/
public String toString() {
    return permissionString;
}

/**
* Returns the {@link Permission} enumeration value representing the specified Amazon
* S3 Region ID string. If specified string doesn't map to a known Amazon S3

```

```

* Region, returns <code>null</code>.
*
* @param str
*     A string representation of an Amazon S3 permission, eg.
*     <code>FULL_CONTROL</code>
*
* @return The { @link Permission } object represented by the given permission string,
*     Returns <code>null</code> if the string isn't a valid representation
*     of an Amazon S3
*     permission.
*/
public static Permission parsePermission(String str) {
    for (Permission permission : Permission.values()) {
        if (permission.permissionString.equals(str)) {
            return permission;
        }
    }

    return null;
}
}

```

1.22 axiom-api 1.2.20

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1.23 axiom-impl 1.2.20

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1.24 axis2-adb 1.7.4

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1.28 axis2-xmlbeans 1.7.4

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1.29 bcprov-jdk16 1.46

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1.31 commons-beanutils 1.8.3

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contains test data from <http://aspell.net/test/orig/batch0.tab>.
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1.34 commons-codec 1.10

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
```

```

<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

```

```

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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```

```

</head>

```

```

<body>

```

```

<!-- Navigation -->

```

```

<header>

```

```

<nav class="navbar navbar-default navbar-fixed-top">

```

```

  <div class="container">

```

```

    <div class="navbar-header">

```

```

      <button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

```

```

        <span class="sr-only">Toggle navigation</span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

        <span class="icon-bar"></span>

```

```

      </button>

```

```

      <a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

```

```

    </div>

```

```

    <div class="collapse navbar-collapse" id="mainnav-collapse">

```

```

      <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&raquo;&nbsp;&raquo;<a
href="/licenses/">Licenses</a></div>

```

```

      <ul class="nav navbar-nav navbar-right">

```

```

        <li class="dropdown">

```

```

          <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

```

```

          <ul class="dropdown-menu" role="menu">

```



```

<li><a href="/foundation">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html ">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org">Overview</a></li>
<li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
<li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
<li><a href="http://www.apachecon.com/">ApacheCon</a></li>
  </ul>
</li>
<li><a href="/dyn/closer.cgi">Download</a></li>
<li class="dropdown">
  <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
  <ul class="dropdown-menu" role="menu">
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
  </ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">

```

```

<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-3 col-xs-6">
    <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
      
    </a>
  </div>
  <div class="col-md-3 col-sm-4 col-xs-6">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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</pre></div></div>

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

Overview

Conferences

Summer of Code

Getting Started

The Apache Way

```
<li><a href="/travel/">Travel Assistance</a></li>
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
<li><a href="/memorials/">Memorials</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
</ul>
```

```

        <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
        <li><a href="/licenses/exports/">Export Information</a></li>
        <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
        <li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
</div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

1.35 commons-collections 3.2.2

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1.42 commons-logging 1.1.3

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1.43 commons.io 1.2

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1.44 cryptacular 1.1.1

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    <outputFile>${project.build.directory}/checkstyle-result.txt</outputFile>
  </configuration>
  <executions>
    <execution>
      <id>checkstyle</id>
      <phase>compile</phase>
      <goals>
        <goal>checkstyle</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>2.19.1</version>
  <configuration>
    <parallel>methods</parallel>
    <threadCount>10</threadCount>
    <properties>
      <property>
        <name>surefire.testng.verbose</name>
        <value>${testng.verbosity}</value>
      </property>
    </properties>
  </configuration>

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</plugin>
<plugin>
  <groupId>com.github.siom79.japicmp</groupId>
  <artifactId>japicmp-maven-plugin</artifactId>
  <version>0.8.1</version>
  <configuration>
    <oldVersion>
      <dependency>
        <groupId>${project.groupId}</groupId>
        <artifactId>${project.artifactId}</artifactId>
        <version>${org.cryptacular.oldVersion}</version>
        <type>jar</type>
      </dependency>
    </oldVersion>
    <newVersion>
      <file>
        <path>${project.build.directory}/${project.artifactId}-${project.version}.${project.packaging}</path>
      </file>
    </newVersion>
    <parameter>
      <ignoreNonResolvableArtifacts>>false</ignoreNonResolvableArtifacts>
      <onlyBinaryIncompatible>>true</onlyBinaryIncompatible>
      <breakBuildOnBinaryIncompatibleModifications>>true</breakBuildOnBinaryIncompatibleModifications>
      <packagingSupported>
        <packagingSupported>jar</packagingSupported>
      </packagingSupported>
    </parameter>
  </configuration>
  <executions>
    <execution>
      <phase>verify</phase>
      <goals>
        <goal>cmp</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>2.10.4</version>
  <configuration>
    <links>
      <link>http://download.oracle.com/javase/7/docs/api</link>
    </links>
    <bottom><![CDATA[<i>Copyright &#169; 2003-2016 Virginia Tech. All Rights Reserved.</i>]]></bottom>
  </configuration>
  <executions>

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    <execution>
      <id>javadoc</id>
      <phase>package</phase>
      <goals>
        <goal>jar</goal>
      </goals>
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  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.0.1</version>
  <executions>
    <execution>
      <id>source</id>
      <phase>package</phase>
      <goals>
        <goal>jar</goal>
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</plugin>
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  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-jar-plugin</artifactId>
  <version>3.0.2</version>
  <configuration>
    <archive>
      <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
    </archive>
  </configuration>
  <executions>
    <execution>
      <id>jar</id>
      <phase>package</phase>
      <goals>
        <goal>test-jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>3.2.0</version>
  <executions>
    <execution>

```

```

    <id>bundle-manifest</id>
    <phase>process-classes</phase>
    <goals>
      <goal>manifest</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-assembly-plugin</artifactId>
  <version>2.6</version>
  <configuration>
    <appendAssemblyId>true</appendAssemblyId>
    <attach>false</attach>
    <descriptors>
      <descriptor>${assembly.dir}/cryptacular.xml</descriptor>
    </descriptors>
    <archiverConfig>
      <defaultDirectoryMode>0755</defaultDirectoryMode>
    </archiverConfig>
  </configuration>
  <executions>
    <execution>
      <id>assembly</id>
      <phase>package</phase>
      <goals>
        <goal>single</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-release-plugin</artifactId>
  <version>2.5.3</version>
  <configuration>
    <tagNameFormat>v@{project.version}</tagNameFormat>
  </configuration>
</plugin>
</plugins>
</build>
<profiles>
  <profile>
    <id>sign-artifacts</id>
    <activation>
      <property>
        <name>sign</name>

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    <value>true</value>
  </property>
</activation>
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-gpg-plugin</artifactId>
      <version>1.6</version>
      <executions>
        <execution>
          <id>sign-artifacts</id>
          <phase>package</phase>
          <goals>
            <goal>sign</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>
</profile>
</profiles>
</project>

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1.45 d3 3.5.0

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1.46 detect-element-resize 0.5.3

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1.47 dsn 1.4.4

1.48 elasticsearch-rest-client 5.6.9

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1.54 hammerjs 2.0.8

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1.55 hazelcast 3.4.2

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1.56 hk2-api 2.2.0

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*/

1.57 hk2-utils 2.2.0

1.58 httpasyncclient 4.1.2

1.58.1 Available under license :

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1.59 httpcore 4.4.5

1.59.1 Available under license :

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
```

```

<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

```

```

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```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a
```

```

href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation">Overview</a></li>
      <li><a href="/foundation/members.html">Members</a></li>
      <li><a href="/foundation/how-it-works.html">Process</a></li>
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/glossary.html">Glossary</a></li>
      <li><a href="/foundation/preFAQ.html">FAQ</a></li>
      <li><a href="/foundation/contact.html ">Contact</a></li>
    </ul>
  </li>
  <li><a href="/index.html#projects-list">Projects</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="http://people.apache.org/">Overview</a></li>
      <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
      <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
      <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
      <li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
  </li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/getinvolved.html">Overview</a></li>
      <li><a href="http://community.apache.org/">Community Development</a></li>
      <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
      <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
  </li>
  <li><a href="/dyn/closer.cgi">Download</a></li>
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
      <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
      <li><a href="/foundation/contributing.html">Donations</a></li>
      <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
      <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
  </li>
</ul>
</div>

```



```

</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
  <div class="col-md-6 col-sm-5 col-xs-12">
    
  </div>
  <div class="col-md-3 col-sm-3 col-xs-6">
<a href="http://apache.org/foundation/contributing.html" title="Support Apache">
  
</a>
</div>
  <div class="col-md-3 col-sm-4 col-xs-6">
    <div class="input-group" style="margin-bottom: 5px;">
      <script>
(function() {
var cx = '005703438322411770421:5mgshgrgx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
  '//cse.google.com/cse.js?cx=' + cx;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
})();
</script>
  <gcse:searchbox-only></gcse:searchbox-only>
</div>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
  <a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
  <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
visibility: hidden;
}

```

h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover > .headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>

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

<!-- Footer -->

<footer class="bg-primary">

<div class="container">

<div class="row">

<div class="col-sm-1">

</div>

<div class="col-sm-2">

<h5 class="white">Community</h5>

<ul class="list-unstyled white" role="menu">

```
<li><a href="http://community.apache.org/">Overview</a></li>
<li><a href="/foundation/conferences.html">Conferences</a></li>
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
<li><a href="/travel/">Travel Assistance</a></li>
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
<li><a href="/memorials/">Memorials</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Innovation</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
```

```

    <ul class="list-unstyled white" role="menu">
    <li><a href="/legal/">Legal Affairs</a></li>
    <li><a href="/licenses/">Licenses</a></li>
    <li><a href="/foundation/marks/">Trademark Policy</a></li>
    <li><a href="/foundation/records/">Public Records</a></li>
    <li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
    <li><a href="/licenses/exports/">Export Information</a></li>
    <li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
    <li><a href="/foundation/contact.html">Contacts</a></li>
    </ul>
</div>

<div class="col-sm-1">
</div>

</div>
<hr class="col-lg-12 hr-white" />
<div class="row">
<div class="col-lg-12">
    <p class="text-center">Copyright © 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
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Foundation.</p>
    </div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>

```

1.60 httpcore 4.4.4

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1.61 httpcore-nio 4.4.5

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1.62 httpmime 4.3.1

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1.63 httpmime 4.5.2

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```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">

<title>Apache License, Version 2.0</title>
<link href='https://fonts.googleapis.com/css?family=Source+Sans+Pro:400,700%7cDroid+Serif:400,700'
rel='stylesheet' type='text/css'>
```



```
<link href="/css/min.bootstrap.css" rel="stylesheet">
```

```
<link href="/css/styles.css" rel="stylesheet">
```

```
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```

```
</head>
```

```
<body>
```

```
<!-- Navigation -->
```

```
<header>
```

```
<nav class="navbar navbar-default navbar-fixed-top">
```

```
<div class="container">
```

```
<div class="navbar-header">
```

```
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
```

```
<span class="sr-only">Toggle navigation</span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
<span class="icon-bar"></span>
```

```
</button>
```

```
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="mainnav-collapse">
```

```
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo;&nbsp;&lt;a href="/licenses/">Licenses</a></div>
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
```

```
<ul class="dropdown-menu" role="menu">
```

```
<li><a href="/foundation">Overview</a></li>
```

```
<li><a href="/foundation/members.html">Members</a></li>
```

```
<li><a href="/foundation/how-it-works.html">Process</a></li>
```

```
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
```

```
<li><a href="/foundation/glossary.html">Glossary</a></li>
```

```
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
```

```
<li><a href="/foundation/contact.html ">Contact</a></li>
```

```
</ul>
```

```
</li>
```

```
<li><a href="/index.html#projects-list">Projects</a></li>
```

```
<li class="dropdown">
```

```
<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
```

```

    <ul class="dropdown-menu" role="menu">
    <li><a href="http://people.apache.org/">Overview</a></li>
    <li><a href="http://people.apache.org/committer-index.html">Committers</a></li>
    <li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
    <li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
    <li><a href="http://planet.apache.org/">Planet Apache</a></li>
    </ul>
    </li>
    <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Get Involved <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/getinvolved.html">Overview</a></li>
    <li><a href="http://community.apache.org/">Community Development</a></li>
    <li><a href="http://helpwanted.apache.org/">Help Wanted</a></li>
    <li><a href="http://www.apachecon.com/">ApacheCon</a></li>
    </ul>
    </li>
    <li><a href="/dyn/closer.cgi">Download</a></li>
    <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">Support Apache <span
class="caret"></span></a>
    <ul class="dropdown-menu" role="menu">
    <li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
    <li><a href="/foundation/contributing.html">Donations</a></li>
    <li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
    <li><a href="/foundation/thanks.html">Thanks</a></li>
    </ul>
    </li>
    </ul>
</div>
</div>
</nav>
</header>
<!-- / Navigation -->
<div class="container">
<div class="row">
    <div class="col-md-6 col-sm-5 col-xs-12">
    
    </div>
    <div class="col-md-3 col-sm-3 col-xs-6">
    <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
    
    </a>
    </div>
    <div class="col-md-3 col-sm-4 col-xs-6">
    <div class="input-group" style="margin-bottom: 5px;">

```

```

<script>
(function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gcse = document.createElement('script');
  gcse.type = 'text/javascript';
  gcse.async = true;
  gcse.src = (document.location.protocol == 'https:' ? 'https:' : 'http:') +
    '//cse.google.com/cse.js?cx=' + cx;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gcse, s);
})();
</script>
<gcse:searchbox-only></gcse:searchbox-only>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs"
href="https://community.apache.org/contributors/">Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
</div>
</div>
</div>
<div class="container"><style type="text/css">
/* The following code is added by mdx_elementid.py
  It was originally lifted from http://subversion.apache.org/style/site.css */
/*
* Hide class="elementid-permalink", except when an enclosing heading
* has the :hover property.
*/
.headerlink, .elementid-permalink {
  visibility: hidden;
}
h2:hover > .headerlink, h3:hover > .headerlink, h1:hover > .headerlink, h6:hover > .headerlink, h4:hover >
.headerlink, h5:hover > .headerlink, dt:hover > .elementid-permalink { visibility: visible }</style>
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```
<div class="codehilite"><pre>Copyright [yyyy] [name of copyright owner]
```

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```
</pre></div></div>
```

```
<!-- Footer -->
```

```
<footer class="bg-primary">
```

```
<div class="container">
```

```
<div class="row">
```

```
<br />
```

```
<div class="col-sm-1">
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Community</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://community.apache.org/">Overview</a></li>
```

```
<li><a href="/foundation/conferences.html">Conferences</a></li>
```

```
<li><a href="http://community.apache.org/gsoc.html">Summer of Code</a></li>
```

```
<li><a href="http://community.apache.org/newcomers/">Getting Started</a></li>
```

```
<li><a href="/foundation/how-it-works.html">The Apache Way</a></li>
```

```
<li><a href="/travel/">Travel Assistance</a></li>
```

```
<li><a href="/foundation/getinvolved.html">Get Involved</a></li>
```

```
<li><a href="http://community.apache.org/newbiefaq.html">Community FAQ</a></li>
```

```
<li><a href="/memorials/">Memorials</a></li>
```

```
</ul>
```

```
</div>
```

```
<div class="col-sm-2">
```

```
<h5 class="white">Innovation</h5>
```

```
<ul class="list-unstyled white" role="menu">
```

```
<li><a href="http://incubator.apache.org/">Incubator</a></li>
```

```
<li><a href="http://labs.apache.org/">Labs</a></li>
```

```
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Press</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/press/">Overview</a></li>
<li><a href="https://blogs.apache.org/">ASF News</a></li>
<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
<li><a href="https://twitter.com/TheASF">Twitter Feed</a></li>
<li><a href="/press/#contact">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
<li><a href="/foundation/policies/privacy.html">Privacy Policy</a></li>
<li><a href="/licenses/exports/">Export Information</a></li>
<li><a href="/foundation/license-faq.html">License/Distribution FAQ</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>
```

```
<div class="col-sm-1">
</div>
```

```
</div>
<hr class="col-lg-12 hr-white" />
```



```

<div class="row">
  <div class="col-lg-12">
    <p class="text-center">Copyright &#169; 2017 The Apache Software Foundation, Licensed under the <a
class="white" href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
    <p class="text-center">Apache and the Apache feather logo are trademarks of The Apache Software
Foundation.</p>
  </div>
</div>
</div>
</div>

</footer>

<!-- / Footer -->

<script src="/js/jquery-2.1.1.min.js"></script>
<script src="/js/bootstrap.js"></script>
</body>
</html>
Apache License, Version 2

```

1.64 icons 2.0.1

1.64.1 Available under license :

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1.65 jackson-annotations 2.8.1

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1.66 jackson-core 2.8.9

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1.68 jackson-databind 2.8.1

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1.69 jackson-databind 2.8.9

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1.70 java-support 7.3.0

1.71 Javassist 3.20.0-GA

1.71.1 Available under license :

<https://github.com/jboss-javassist/javassist>

Javassist version 3

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1.72 javax-mail 1.6.0

1.72.1 Available under license :

```
<html>
<head>
<title>Specification License</title>
</head>
<body>
Specification: JSR-919 JavaMail API ("Specification")
<br/>
Version: 1.6
<br/>
Status: Final Release
<br/>
Specification Lead: Oracle America, Inc. ("Specification Lead")
<br/>
Release: August 2017
<br/>
```


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1.86 jersey-common 2.6

1.87 jersey-container-servlet 2.6.0

1.88 jersey-guava 2.6

1.89 jersey-server 2.6

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 */

```
package org.glassfish.jersey.server.wadl.internal.generators;
```

```
import java.io.File;
import java.io.FileInputStream;
import java.io.InputStream;
import java.util.List;
```

```
import javax.ws.rs.core.Context;
import javax.ws.rs.core.MediaType;
```

```
import javax.inject.Provider;
import javax.xml.parsers.SAXParserFactory;
```

```
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.wadl.WadlGenerator;
```

```

import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;
import org.glassfish.jersey.server.wadl.internal.WadlUtils;

import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Method;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;

/**
 * This {@link org.glassfish.jersey.server.wadl.WadlGenerator} adds all doc elements provided by {@link
 ApplicationDocs#getDocs()}
 * to the generated wadl-file.
 * <p>
 * The {@link ApplicationDocs} content can either be provided via a {@link File} reference
 * ({@link #setApplicationDocsFile(File)}) or
 * via an {@link InputStream} ({@link #setApplicationDocsStream(InputStream)}).
 * </p>
 * <p>
 * The {@link File} should be used when using the maven-wadl-plugin for generating wadl offline,
 * the {@link InputStream} should be used when the extended wadl is generated by jersey at runtime, e.g.
 * using the {@link org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig} for configuration.
 * </p>
 *
 * Created on: Jun 16, 2008<br>
 *
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 */
public class WadlGeneratorApplicationDoc implements WadlGenerator {

    private WadlGenerator _delegate;
    private File _applicationDocsFile;
    private InputStream _applicationDocsStream;
    private ApplicationDocs _applicationDocs;
    @Context
    private Provider<SAXParserFactory> saxFactoryProvider;

    public void setWadlGeneratorDelegate(WadlGenerator delegate) {
        _delegate = delegate;
    }

    public String getRequiredJaxbContextPath() {
        return _delegate.getRequiredJaxbContextPath();
    }
}

```

```

public void setApplicationDocsFile(File applicationDocsFile) {
    if (_applicationDocsStream != null) {
        throw new IllegalStateException("The applicationDocsStream property is already set," +
            " therefore you cannot set the applicationDocsFile property. Only one of both can be set at a time.");
    }
    _applicationDocsFile = applicationDocsFile;
}

public void setApplicationDocsStream(InputStream applicationDocsStream) {
    if (_applicationDocsFile != null) {
        throw new IllegalStateException("The applicationDocsFile property is already set," +
            " therefore you cannot set the applicationDocsStream property. Only one of both can be set at a time.");
    }
    _applicationDocsStream = applicationDocsStream;
}

public void init() throws Exception {
    if (_applicationDocsFile == null && _applicationDocsStream == null) {
        throw new IllegalStateException("Neither the applicationDocsFile nor the applicationDocsStream" +
            " is set, one of both is required.");
    }
    _delegate.init();

    InputStream inputStream;
    if (_applicationDocsFile != null) {
        inputStream = new FileInputStream(_applicationDocsFile);
    } else {
        inputStream = _applicationDocsStream;
    }
    _applicationDocs = WadlUtils.unmarshall(inputStream, saxFactoryProvider.get(), ApplicationDocs.class);
}

/**
 * @return the application
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createApplication()
 */
public Application createApplication() {
    final Application result = _delegate.createApplication();
    if (_applicationDocs != null && _applicationDocs.getDocs() != null &&
        !_applicationDocs.getDocs().isEmpty()) {
        result.getDoc().addAll(_applicationDocs.getDocs());
    }
    return result;
}

/**

```

```

* @param r
* @param m
* @return the method
* @see
org.glassfish.jersey.server.wadl.WadlGenerator#createMethod(org.glassfish.jersey.server.model.Resource,
* org.glassfish.jersey.server.model.ResourceMethod)
*/
public Method createMethod(org.glassfish.jersey.server.model.Resource r,
org.glassfish.jersey.server.model.ResourceMethod m) {
    return _delegate.createMethod(r, m);
}

/**
* @param r
* @param m
* @param mediaType
* @return representation type
* @see
org.glassfish.jersey.server.wadl.WadlGenerator#createRequestRepresentation(org.glassfish.jersey.server.model.Resource,
source,
* org.glassfish.jersey.server.model.ResourceMethod, javax.ws.rs.core.MediaType)
*/
public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,
org.glassfish.jersey.server.model.ResourceMethod m,
MediaType mediaType) {
    return _delegate.createRequestRepresentation(r, m, mediaType);
}

/**
* @param r
* @param m
* @return request
* @see
org.glassfish.jersey.server.wadl.WadlGenerator#createRequest(org.glassfish.jersey.server.model.Resource,
* org.glassfish.jersey.server.model.ResourceMethod)
*/
public Request createRequest(org.glassfish.jersey.server.model.Resource r,
org.glassfish.jersey.server.model.ResourceMethod
m) {
    return _delegate.createRequest(r, m);
}

/**
* @param r
* @param m
* @param p
* @return parameter
* @see org.glassfish.jersey.server.wadl.WadlGenerator#createParam(org.glassfish.jersey.server.model.Resource,

```

```

    * org.glassfish.jersey.server.model.ResourceMethod, org.glassfish.jersey.server.model.Parameter)
    */
    public Param createParam(org.glassfish.jersey.server.model.Resource r,
        org.glassfish.jersey.server.model.ResourceMethod m,
        Parameter p) {
        return _delegate.createParam(r, m, p);
    }

    /**
     * @param r
     * @param path
     * @return resource
     * @see
    org.glassfish.jersey.server.wadl.WadlGenerator#createResource(org.glassfish.jersey.server.model.Resource, String)
    */
    public Resource createResource(org.glassfish.jersey.server.model.Resource r, String path) {
        return _delegate.createResource(r, path);
    }

    /**
     * @param r
     * @param m
     * @return response
     * @see
    org.glassfish.jersey.server.wadl.WadlGenerator#createResponses(org.glassfish.jersey.server.model.Resource,
        * org.glassfish.jersey.server.model.ResourceMethod)
    */
    public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r,
        org.glassfish.jersey.server.model.ResourceMethod m) {
        return _delegate.createResponses(r, m);
    }

    /**
     * @return resources
     * @see org.glassfish.jersey.server.wadl.WadlGenerator#createResources()
     */
    public Resources createResources() {
        return _delegate.createResources();
    }

    // ===== methods for post build actions =====

    @Override
    public ExternalGrammarDefinition createExternalGrammar() {
        return _delegate.createExternalGrammar();
    }

    @Override

```

```

public void attachTypes(ApplicationDescription egd) {
    _delegate.attachTypes(egd);
}
}
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*/
package org.glassfish.jersey.server.wadl.internal.generators;

import java.util.ArrayList;
import java.util.List;

```



```

import javax.xml.bind.annotation.XmlAccessType;
import javax.xml.bind.annotation.XmlAccessorType;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;
import javax.xml.bind.annotation.XmlType;

import com.sun.research.ws.wadl.Doc;

/**
 * The wrapper root document for multiple { @link Doc } elements.
 * Created on: Jun 10, 2008<br>
 *
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 */
@XmlAccessorType(XmlAccessType.FIELD)
@XmlType(name = "applicationDocs", propOrder = {
    "docs"
})
@XmlRootElement(name = "applicationDocs")
public class ApplicationDocs {

    @XmlElement(name = "doc" )
    protected List<Doc> docs;

    public List<Doc> getDocs() {
        if (docs == null) {
            docs = new ArrayList<Doc>();
        }
        return this.docs;
    }

}

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```

```

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```

```
package org.glassfish.jersey.server.wadl.internal;
```

```
import java.util.ArrayList;
import java.util.List;
```

```
import javax.ws.rs.core.MediaType;
```

```
import javax.xml.namespace.QName;
```

```
import org.glassfish.jersey.server.model.Parameter;
import org.glassfish.jersey.server.model.ResourceMethod;
import org.glassfish.jersey.server.wadl.WadlGenerator;
```

```
import com.sun.research.ws.wadl.Application;
import com.sun.research.ws.wadl.Param;
import com.sun.research.ws.wadl.ParamStyle;
import com.sun.research.ws.wadl.Representation;
import com.sun.research.ws.wadl.Request;
import com.sun.research.ws.wadl.Resource;
import com.sun.research.ws.wadl.Resources;
import com.sun.research.ws.wadl.Response;
```

```
/**
```

```
 * This WadlGenerator creates the basic wadl artifacts.<br>
```

```

* Created on: Jun 16, 2008<br>
*
* @author Martin Grotzke (martin.grotzke at freiheit.com)
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
*/
public class WadlGeneratorImpl implements WadlGenerator {

    @Override
    public String getRequiredJaxbContextPath() {
        final String name = Application.class.getName();
        return name.substring(0, name.lastIndexOf('.'));
    }

    @Override
    public void init() {
    }

    @Override
    public void setWadlGeneratorDelegate(WadlGenerator delegate) {
        throw new UnsupportedOperationException("No delegate supported.");
    }

    @Override
    public Resources createResources() {
        return new Resources();
    }

    @Override
    public Application createApplication() {
        return new Application();
    }

    @Override
    public com.sun.research.ws.wadl.Method createMethod(
        org.glassfish.jersey.server.model.Resource r, final ResourceMethod m) {
        com.sun.research.ws.wadl.Method wadlMethod =
            new com.sun.research.ws.wadl.Method();
        wadlMethod.setName(m.getHttpMethod());
        wadlMethod.setId(m.getInvocable().getDefinitionMethod().getName());
        if (m.isExtended()) {
            wadlMethod.getAny().add(WadlApplicationContextImpl.extendedElement);
        }
        return wadlMethod;
    }

    @Override
    public Representation createRequestRepresentation(org.glassfish.jersey.server.model.Resource r,

```

```

        ResourceMethod m, MediaType mediaType) {
    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

@Override
public Request createRequest(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    return new Request();
}

@Override
public Param createParam(org.glassfish.jersey.server.model.Resource r, ResourceMethod m, final Parameter p) {

    if (p.getSource() == Parameter.Source.UNKNOWN)
        return null;

    Param wadlParam = new Param();
    wadlParam.setName(p.getSourceName());

    switch (p.getSource()) {
        case FORM:
            wadlParam.setStyle(ParamStyle.QUERY);
            break;
        case QUERY:
            wadlParam.setStyle(ParamStyle.QUERY);
            break;
        case MATRIX:
            wadlParam.setStyle(ParamStyle.MATRIX);
            break;
        case PATH:
            wadlParam.setStyle(ParamStyle.TEMPLATE);
            break;
        case HEADER:
            wadlParam.setStyle(ParamStyle.HEADER);
            break;
        case COOKIE:
            // Generates name="Cookie" path="<name>"
            wadlParam.setStyle(ParamStyle.HEADER);
            wadlParam.setName("Cookie");
            wadlParam.setPath(p.getSourceName());
            break;
        default:
            break;
    }

    if (p.hasDefaultValue())
        wadlParam.setDefault(p.getDefaultValue());
}

```

```

Class<?> pClass = p.getRawType();
if (pClass.isArray()) {
    wadlParam.setRepeating(true);
    pClass = pClass.getComponentType();
}
if (pClass.equals(int.class) || pClass.equals(Integer.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "int", "xs"));
else if (pClass.equals(boolean.class) || pClass.equals(Boolean.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "boolean", "xs"));
else if (pClass.equals(long.class) || pClass.equals(Long.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "long", "xs"));
else if (pClass.equals(short.class) || pClass.equals(Short.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "short", "xs"));
else if (pClass.equals(byte.class) || pClass.equals(Byte.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "byte", "xs"));
else if (pClass.equals(float.class) || pClass.equals(Float.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "float", "xs"));
else if (pClass.equals(double.class) || pClass.equals(Double.class))
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "double", "xs"));
else
    wadlParam.setType(new QName("http://www.w3.org/2001/XMLSchema", "string", "xs"));
return wadlParam;
}

```

@Override

```

public Resource createResource(org.glassfish.jersey.server.model.Resource resource, String path) {
    Resource wadlResource = new Resource();
    if (path != null) {
        wadlResource.setPath(path);
    } else if (resource.getPath() != null) {
        wadlResource.setPath(resource.getPath());
    }

    if (resource.isExtended()) {
        wadlResource.getAny().add(WadlApplicationContextImpl.extendedElement);
    }

    return wadlResource;
}

```

@Override

```

public List<Response> createResponses(org.glassfish.jersey.server.model.Resource r, ResourceMethod m) {
    final Response response = new Response();

    for (MediaType mediaType : m.getProducedTypes()) {
        if (!MediaType.WILDCARD_TYPE.equals(mediaType)

```

```

        || !hasEmptyProducibleMediaTypeSet(m)) {
        Representation wadlRepresentation = createResponseRepresentation(r, m, mediaType);
        response.getRepresentation().add(wadlRepresentation);
    }
}

List<Response> responses = new ArrayList<Response>();
responses.add(response);
return responses;
}

private boolean hasEmptyProducibleMediaTypeSet(final ResourceMethod method) {
    return method.getProducedTypes().isEmpty();
}

public Representation createResponseRepresentation(org.glassfish.jersey.server.model.Resource r,
ResourceMethod m,
                                           MediaType mediaType) {
    Representation wadlRepresentation = new Representation();
    wadlRepresentation.setMediaType(mediaType.toString());
    return wadlRepresentation;
}

// ===== methods for post build actions =====

@Override
public ExternalGrammarDefinition createExternalGrammar() {
    // Return an empty list to add to
    return new ExternalGrammarDefinition();
}

@Override
public void attachTypes(ApplicationDescription egd) {
}
}
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```

*/
package org.glassfish.jersey.server.wadl.internal;

import java.util.Set;

import javax.ws.rs.core.MediaType;

import javax.xml.namespace.QName;

import org.glassfish.jersey.server.wadl.WadlGenerator;

import com.sun.research.ws.wadl.Application;

/**
 * This class is designed to combine the Application instance with any other
 * external metadata that might be required to describe the application.
 */
 * @author Gerard Davison
 */
public class ApplicationDescription {

    private Application _application;

```

```

private WadlGenerator.ExternalGrammarDefinition _externalGrammarDefiniton;

ApplicationDescription(Application application, WadlGenerator.ExternalGrammarDefinition
externalGrammarDefiniton) {
    super();
    this._application = application;
    this._externalGrammarDefiniton = externalGrammarDefiniton;
}

/**
 * @return The instance of the application object
 */
public Application getApplication() {
    return _application;
}

/**
 * @param type java class to be resolved.
 * @return the QName for the given Class in the grammar.
 */
public QName resolve(Class type) {
    return _externalGrammarDefiniton.resolve(type);
}

/**
 * @param path path to external metadata.
 * @return the external metadata for a given URL, generally provided as a sub resource
 *         or the root application.wadl.
 */
public ExternalGrammar getExternalGrammar(String path) {
    return _externalGrammarDefiniton.map.get(path);
}

/**
 * @return A set of all the external metadata keys
 */
public Set<String> getExternalMetadataKeys() {
    return _externalGrammarDefiniton.map.keySet();
}

/**
 * A simple holder class that stores a type and binary content
 * to be used to return extra metadata with
 */
public static class ExternalGrammar {

    private MediaType _type;
    private byte[] _content;

```



```

public ExternalGrammar(MediaType type, byte[] content) {
    super();
    this._type = type;
    this._content = content.clone();
}

public MediaType getType() {
    return _type;
}

public byte[] getContent() {
    // Defensive copy
    return _content.clone();
}
}
}
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*/

```
package org.glassfish.jersey.server.wadl.internal;
```

```
import java.net.URI;  
import java.security.AccessController;  
import java.util.logging.Level;  
import java.util.logging.Logger;
```

```
import javax.ws.rs.ProcessingException;  
import javax.ws.rs.core.Configuration;  
import javax.ws.rs.core.Context;  
import javax.ws.rs.core.UriBuilder;  
import javax.ws.rs.core.UriInfo;
```

```
import javax.xml.bind.JAXBContext;  
import javax.xml.bind.JAXBElement;  
import javax.xml.bind.JAXBException;  
import javax.xml.namespace.QName;
```

```
import org.glassfish.jersey.internal.util.ReflectionHelper;  
import org.glassfish.jersey.server.ExtendedResourceContext;  
import org.glassfish.jersey.server.internal.LocalizationMessages;  
import org.glassfish.jersey.server.wadl.WadlApplicationContext;  
import org.glassfish.jersey.server.wadl.WadlGenerator;  
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfig;  
import org.glassfish.jersey.server.wadl.config.WadlGeneratorConfigLoader;
```

```
import org.glassfish.hk2.api.ServiceLocator;
```

```
import com.sun.research.ws.wadl.Application;  
import com.sun.research.ws.wadl.Doc;  
import com.sun.research.ws.wadl.Grammars;  
import com.sun.research.ws.wadl.Include;  
import com.sun.research.ws.wadl.Resource;  
import com.sun.research.ws.wadl.Resources;
```

```
/**
```

```
 * WADL application context implementation.
```

```
 *
```

```
 * @author Paul Sandoz (paul.sandoz at oracle.com)
```

```

*/
public class WadlApplicationContextImpl implements WadlApplicationContext {

    private static final Logger LOGGER = Logger.getLogger(WadlApplicationContextImpl.class.getName());

    static final String WADL_JERSEY_NAMESPACE = "http://jersey.java.net/";
    public static final JAXBElement extendedElement = new JAXBElement<String>(
        new QName(WADL_JERSEY_NAMESPACE, "extended", "jersey"), String.class, "true");

    @Context
    private ExtendedResourceContext resourceContext;

    private final ServiceLocator serviceLocator;

    private boolean wadlGenerationEnabled = true;

    private final WadlGeneratorConfig wadlGeneratorConfig;

    private final JAXBContext jaxbContext;

    public WadlApplicationContextImpl(@Context Configuration configuration, @Context ServiceLocator
serviceLocator) {
        this.serviceLocator = serviceLocator;
        this.wadlGeneratorConfig =
WadlGeneratorConfigLoader.loadWadlGeneratorsFromConfig(configuration.getProperties());

        // TODO perhaps this should be done another way for the moment
        // create a temporary generator just to do this one task
        final WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);

        JAXBContext jaxbContextCandidate;

        final ClassLoader contextClassLoader =
AccessController.doPrivileged(ReflectionHelper.getContextClassLoaderPA());
        try {
            // Nasty ClassLoader magic. JAXB-API has some strange limitation about what classloader can
            // be used in OSGi environment - it must be same as context ClassLoader. Following code just
            // workarounds this limitation
            // see JERSEY-1818
            // see JSR222-46

            final ClassLoader jerseyModuleClassLoader =
                AccessController.doPrivileged(ReflectionHelper.getClassLoaderPA(wadlGenerator.getClass()));

            AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(jerseyModuleClassLoader));

            jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath(),

```

```
jerseyModuleClassLoader);
```

```
    } catch (JAXBException ex) {  
        try {  
            // fallback for glassfish  
            LOGGER.log(Level.FINE, LocalizationMessages.WADL_JAXB_CONTEXT_FALLBACK(), ex);  
            jaxbContextCandidate = JAXBContext.newInstance(wadlGenerator.getRequiredJaxbContextPath());  
        } catch (JAXBException innerEx) {  
            throw new ProcessingException(LocalizationMessages.ERROR_WADL_JAXB_CONTEXT(), ex);  
        }  
    } finally {  
        AccessController.doPrivileged(ReflectionHelper.setContextClassLoaderPA(contextClassLoader));  
    }  
  
    jaxbContext = jaxbContextCandidate;  
}
```

```
@Override
```

```
public ApplicationDescription getApplication(UriInfo uriInfo, boolean detailedWadl) {  
    ApplicationDescription applicationDescription = getWadlBuilder(detailedWadl, uriInfo)  
        .generate(resourceContext.getResourceModel().getRootResources());  
    final Application application = applicationDescription.getApplication();  
    for (Resources resources : application.getResources()) {  
        if (resources.getBase() == null) {  
            resources.setBase(uriInfo.getBaseUri().toString());  
        }  
    }  
    attachExternalGrammar(application, applicationDescription, uriInfo.getRequestUri());  
    return applicationDescription;  
}
```

```
@Override
```

```
public Application getApplication(UriInfo info,  
    org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl) {  
  
    // Get the root application description  
    //  
  
    ApplicationDescription description = getApplication(info, detailedWadl);  
  
    WadlGenerator wadlGenerator = wadlGeneratorConfig.createWadlGenerator(serviceLocator);  
    Application application = new WadlBuilder(wadlGenerator, detailedWadl, info).generate(description, resource);  
    if (application == null) {  
        return null;  
    }  
  
    for (Resources resources : application.getResources()) {  
        resources.setBase(info.getBaseUri().toString());  
    }  
}
```

```

    }

    // Attach any grammar we may have

    attachExternalGrammar(application, description,
        info.getRequestUri());

    for (Resources resources : application.getResources()) {
        final Resource r = resources.getResource().get(0);
        r.setPath(info.getBaseUri().relativize(info.getAbsolutePath()).toString());

        // remove path params since path is fixed at this point
        r.getParam().clear();
    }

    return application;
}

// TODO probably no longer required
@Override
public JAXBContext getJAXBContext() {
    return jaxbContext;
}

private WadlBuilder getWadlBuilder(boolean detailedWadl, UriInfo uriInfo) {
    return (this.wadlGenerationEnabled ? new
WadlBuilder(wadlGeneratorConfig.createWadlGenerator(serviceLocator),
        detailedWadl, uriInfo) : null);
}

@Override
public void setWadlGenerationEnabled(boolean wadlGenerationEnabled) {
    this.wadlGenerationEnabled = wadlGenerationEnabled;
}

@Override
public boolean isWadlGenerationEnabled() {
    return wadlGenerationEnabled;
}

/**
 * Update the application object to include the generated grammar objects
 */
private void attachExternalGrammar(
    Application application,
    ApplicationDescription applicationDescription,
    URI requestURI) {

```

```

// Massage the application.wadl URI slightly to get the right effect
//

try {
    final String requestURIPath = requestURI.getPath();

    if (requestURIPath.endsWith("application.wadl")) {
        requestURI = UriBuilder.fromUri(requestURI)
            .replacePath(
                requestURIPath
                    .substring(0, requestURIPath.lastIndexOf('/') + 1))
            .build();
    }

    String root = application.getResources().get(0).getBase();
    UriBuilder extendedPath = root != null ?
        UriBuilder.fromPath(root).path("/application.wadl/")
        : UriBuilder.fromPath("./application.wadl/");
    URI rootURI = root != null ? UriBuilder.fromPath(root).build() : null;

    // Add a reference to this grammar
    //

    Grammars grammars;
    if (application.getGrammars() != null) {
        LOGGER.info(LocalizationMessages.ERROR_WADL_GRAMMAR_ALREADY_CONTAINS());
        grammars = application.getGrammars();
    } else {
        grammars = new Grammars();
        application.setGrammars(grammars);
    }

    // Create a reference back to the root WADL
    //

    for (String path : applicationDescription.getExternalMetadataKeys()) {
        URI schemaURI =
            extendedPath.clone().path(path).build();

        String schemaPath = rootURI != null ?
            requestURI.relativize(schemaURI).toString()
            : schemaURI.toString();

        Include include = new Include();
        include.setHref(schemaPath);
        Doc doc = new Doc();

```

```

        doc.setLang("en");
        doc.setTitle("Generated");
        include.getDoc().add(doc);

        // Finally add to list
        grammars.getInclude().add(include);
    }
} catch (Exception e) {
    throw new ProcessingException(LocalizationMessages.ERROR_WADL_EXTERNAL_GRAMMAR(), e);
}
}
}
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```

```

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*/
package org.glassfish.jersey.server.wadl;

import javax.ws.rs.core.UriInfo;

import javax.xml.bind.JAXBContext;

import org.glassfish.jersey.server.wadl.internal.ApplicationDescription;

import com.sun.research.ws.wadl.Application;

/**
 * A context to obtain WADL-based information.
 *
 * @author Paul.Sandoz
 */
public interface WadlApplicationContext {
    /**
     * Get a WADL builder initiated with the configured {@link WadlGenerator}
     * for the Web application.
     *
     * @return the WADL builder.
     */
    WadlBuilder getWadlBuilder();

    /**
     * Get a new instance of a {@link ApplicationDescription} corresponding to all
     * the root resource classes.
     *
     * @return the application description, the contents may be modified.
     */
    ApplicationDescription getApplication();

    /**
     * Get a new instance of a {@link ApplicationDescription} corresponding to all
     * the root resource classes, and configure the base URI.
     *
     * @param ui the URI information from which the base URI is set on the
     * WADL application.
     * @return the application description, the contents may be modified.
     */
    ApplicationDescription getApplication(UriInfo ui, boolean detailedWadl);

    /**
     * Get a new instance of {@link Application} for a particular resource.

```



```

*
* @param info the URI information from which the base URI is set on the
* WADL application.
* @param resource the resource to build the Application for
* @return the application for this resource
*/
Application getApplication(UriInfo info,
                          org.glassfish.jersey.server.model.Resource resource, boolean detailedWadl);

/**
 * Get the default JAXB context associated with the {@link WadlGenerator}
 * for the Web application.
 *
 * @return the default JAXB context.
 */
JAXBContext getJAXBContext();

// /**
//  * Get the default JAXB context path to create a {@link JAXBContext}.
//  *
//  * @return the default JAXB context.
//  */
// String getJAXBContextPath();

/**
 * Enable/disable WADL generation.
 *
 * @param wadlGenerationEnabled if wadlGenerationEnabled is true and
 * {@link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
 * is false, WADL generation is enabled. In all other cases is disabled.
 */
void setWadlGenerationEnabled(boolean wadlGenerationEnabled);

/**
 * Get WADL generation status.
 *
 * @return true when WADL generation is enabled. Does not take
 * {@link org.glassfish.jersey.server.ServerProperties#WADL_FEATURE_DISABLE}
 */
boolean isWadlGenerationEnabled();
}
/*
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 */

```
package org.glassfish.jersey.server.monitoring;
```

```
import java.util.Date;
import java.util.Map;
import java.util.Set;
```

```
/**
```

```
* Application MX Bean.
```

```
*
```

```
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
```

```
*/
```

```
public interface ApplicationMXBean {
```

```
/**
```

```
* Get the application name.
```

```
*
```

```

* @return Application name.
*/
public String getApplicationName();

/**
 * Get the { @link javax.ws.rs.core.Application application class } used for configuration of Jersey application.
 *
 * @return Application class name.
 */
public String getApplicationClass();

/**
 * Get the map of configuration properties converted to strings.
 *
 * @return Map property keys to property string values.
 */
public Map<String, String> getProperties();

/**
 * Get the start time of the application (when application was initialized).
 *
 * @return Application start time.
 */
public Date getStartTime();

/**
 * Get a set of string names of resource classes registered by the user.
 *
 * @return Set of classes full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredClasses() for specification
 * of returned classes.
 */
public Set<String> getRegisteredClasses();

/**
 * Get a set of string names of classes of user registered instances.
 *
 * @return Set of user registered instances converted to their class full names (with package names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getRegisteredInstances()
 * for specification of returned instances.
 */
public Set<String> getRegisteredInstances();

/**
 * Get classes of registered providers.
 *
 * @return Set of provider class full names (with packages names).
 * @see org.glassfish.jersey.server.monitoring.ApplicationEvent#getProviders() for specification

```

```

    *   of returned classes.
    */
    public Set<String> getProviderClasses();
}
/*
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 */

package org.glassfish.jersey.server.monitoring;

import java.util.Set;

```

```

import org.glassfish.jersey.server.ResourceConfig;
import org.glassfish.jersey.server.model.ResourceModel;

/**
 * An event informing about application lifecycle changes. The event is created by Jersey runtime and
 * handled by user registered { @link ApplicationEventListener application event listener}.
 * <p/>
 * The event contains the { @link Type} which distinguishes between types of event. There are various
 * properties in the event (accessible by getters) and some of them might be relevant only to specific event types.
 * <p/>
 * Note that internal state of the event must be modified. Even the event is immutable it exposes objects
 * which might be mutable and the code of event listener must not change state of these objects.
 *
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
public interface ApplicationEvent {

    /**
     * The type of the event that identifies on which lifecycle change the event is triggered.
     */
    public static enum Type {
        /**
         * Initialization of the application has started. In this point no all the event properties
         * are initialized yet.
         */
        INITIALIZATION_START,
        /**
         * Initialization of { @link org.glassfish.jersey.server.ApplicationHandler jersey application} is
         * finished but the server might not be started and ready yet to serve requests (this will be
         * indicated by the { @link #INITIALIZATION_FINISHED} event). This event indicates only that the
         * environment is ready (all providers are registered, application is configured, etc.).
         *
         * @since 2.5
         */
        INITIALIZATION_APP_FINISHED,
        /**
         * Initialization of the application has finished, server is started and application is ready
         * to handle requests now.
         */
        INITIALIZATION_FINISHED,
        /**
         * Application has been destroyed (stopped). In this point the application cannot process any new requests.
         */
        DESTROY_FINISHED,
        /**
         * The application reload is finished. The reload can be invoked by
         * { @link org.glassfish.jersey.server.spi.Container#reload()} method. When this event is triggered
         * the reload is completely finished, which means that the new application is initialized (appropriate

```

```

    * events are called) and new reloaded application is ready to server requests.
    */
    RELOAD_FINISHED
}

/**
 * Return the type of the event.
 *
 * @return Event type.
 */
public Type getType();

/**
 * Get resource config associated with the application. The resource config is set for all event types.
 *
 * @return Resource config on which this application is based on.
 */
public ResourceConfig getResourceConfig();

/**
 * Get resource classes registered by the user in the current application. The set contains only
 * user resource classes and not resource classes added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor }.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource }.
 *
 * @return Resource user registered classes.
 */
public Set<Class<?>> getRegisteredClasses();

/**
 * Get resource instances registered by the user in the current application. The set contains only
 * user resources and not resources added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor }.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource }.
 *
 * @return Resource instances registered by user.
 */
public Set<Object> getRegisteredInstances();

/**
 * Get registered providers available in the runtime. The registered providers

```

```

* are providers like { @link org.glassfish.jersey.server.model.MethodList.Filter filters },
* { @link javax.ws.rs.ext.ReaderInterceptor reader } and { @link javax.ws.rs.ext.WriterInterceptor writer }
* interceptors which are explicitly registered by configuration, or annotated by
* { @link javax.ws.rs.ext.Provider @Provider } or registered in META-INF/services. The
* set does not include providers that are by default built in Jersey.
*
* @return Set of provider classes.
*/
public Set<Class<?>> getProviders();

/**
* Get the resource model of the application. The method returns null for
* { @link Type#INITIALIZATION_START } event type as the resource model is not initialized yet.
* The returned resource model is the final deployed model including resources enhanced by
* { @link org.glassfish.jersey.server.model.ModelProcessor model processors }.
*
* @return Resource model of the deployed application.
*/
public ResourceModel getResourceModel();

}
/*
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*/

```

```
package org.glassfish.jersey.server.monitoring;
```

```
import javax.ws.rs.ConstrainedTo;
import javax.ws.rs.RuntimeType;
```

```
import org.glassfish.jersey.spi.Contract;
```

```

/**
 * Jersey specific provider that listens to {@link ApplicationEvent application events}.
 * The implementation of this interface will be called for two kind of events:
 * application events and {@link RequestEvent request events}. This interface will listen to
 * all {@link org.glassfish.jersey.server.monitoring.ApplicationEvent.Type application event types}
 * but only to first request event which is the {@link RequestEvent.Type#START}. On this event the
 * application event listener can decide whether it will listen to the request and return {@link RequestEventListener
 * request event listener} for listening to further request events.
 * }
 * <p/>
 * The implementation of this interface can be registered as a standard Jersey/JAX-RS provider
 * by annotating with {@link javax.ws.rs.ext.Provider @Provider} annotation in the case of
 * class path scanning, by registering as a provider using {@link org.glassfish.jersey.server.ResourceConfig}
 * or by returning from {@link javax.ws.rs.core.Application#getClasses()}
 * or {@link javax.ws.rs.core.Application#getSingletons()}. The provider can be registered only on the server
 * side.
 * <p/>
 * Application event listener can read data of events but must not modify them in any way. The implementation
 * must be thread safe (the methods might be called from different threads).
 *
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
 */
@Contract
@ConstrainedTo(RuntimeType.SERVER)
public interface ApplicationEventListener {
    /**
     * Process the application {@code event}. This method is called when new event occurs.
     */
}

```



```

* @param event Application event.
*/
public void onEvent(ApplicationEvent event);

/**
 * Process a new request and return a {@link RequestEventListener request event listener} if
 * listening to {@link RequestEvent request events} is required. The method is called once for
 * each new incoming request. If listening to the request is required then request event must be returned
 * from the method. Such a request event listener will receive all request events that one request. If listening
 * to request event for the request is not required then {@code null} must be returned
 * from the method (do not return empty mock listener in these
 * cases as it will have negative performance impact).
 *
 * @param requestEvent Event of type {@link RequestEvent.Type#START}.
 * @return Request event listener that will monitor the events of the request
 *         connected with {@code requestEvent}; null otherwise.
 */
public RequestEventListener onRequest(RequestEvent requestEvent);
}
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*/
```

```
package org.glassfish.jersey.server.monitoring;
```

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

```
import org.glassfish.jersey.server.ResourceConfig;
```

```
/**
```

```
 * Monitoring statistics and configuration of an application.
```

```
 * <p/>
```

```
 * Statistics retrieved from Jersey runtime might be mutable and thanks to it might provide inconsistent data
```

```
 * as not all statistics are updated in the same time. To retrieve the immutable and consistent
```

```
 * statistics data the method { @link #snapshot()} should be used.
```

```
 *
```

```
 * @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
```

```
 * @see MonitoringStatistics See MonitoringStatistics class for general details about statistics.
```

```
*/
```

```
public interface ApplicationStatistics {
```

```
    /**
```

```
     * Get the resource config.
```

```
     *
```

```
     * @return Resource config.
```

```
     */
```

```
    public ResourceConfig getResourceConfig();
```

```
    /**
```

```
     * Get the start time of the application.
```

```
     *
```

```
     * @return Time when an application initialization has been finished.
```

```
     */
```

```
    public Date getStartTime();
```

```
    /**
```

```
     * Get the time when application destroy (stop) has been finished.
```

```
     *
```

```
     * @return Destroy time.
```

```
     */
```

```

    * @deprecated deprecated since 2.5 (destroy time will always be { @code null}). Use
    * { @link
org.glassfish.jersey.server.spi.ContainerLifecycleListener#onShutdown(org.glassfish.jersey.server.spi.Container)}
    * to listen on the destroy.
    */
    public Date getDestroyTime();

/**
 * Get resource classes registered by the user in the current application. The set contains only
 * user resource classes and not resource classes added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
 *
 * @return Resource user registered classes.
 */
    public Set<Class<?>> getRegisteredClasses();

/**
 * Get resource instances registered by the user in the current application. The set contains only
 * user resources and not resources added by Jersey
 * or by { @link org.glassfish.jersey.server.model.ModelProcessor}.
 * <p/>
 * User resources are resources that
 * were explicitly registered by the configuration, discovered by the class path scanning or that
 * constructs explicitly registered { @link org.glassfish.jersey.server.model.Resource programmatic resource}.
 *
 * @return Resource instances registered by user.
 */
    public Set<Object> getRegisteredInstances();

/**
 * Get registered providers available in the runtime. The registered providers
 * are providers like { @link org.glassfish.jersey.server.model.MethodList.Filter filters},
 * { @link javax.ws.rs.ext.ReaderInterceptor reader} and { @link javax.ws.rs.ext.WriterInterceptor writer}
 * interceptors which are explicitly registered by configuration, or annotated by
 * { @link javax.ws.rs.ext.Provider @Provider} or registered in META-INF/services. The
 * set does not include providers that are by default built in Jersey.
 *
 * @return Set of provider classes.
 */
    public Set<Class<?>> getProviders();

/**
 * Get the immutable consistent snapshot of the monitoring statistics. Working with snapshots might

```

```

* have negative performance impact as snapshot must be created but ensures consistency of data over time.
* However, the usage of snapshot is encouraged to avoid working with inconsistent data. Not all statistics
* must be updated in the same time on mutable version of statistics.
*
* @return Snapshot of application statistics.
*/
public ApplicationStatistics snapshot();
}

```

1.90 jgrapht-core 0.9.1

1.91 jjwt 0.9.0

1.92 joda-time 2.8.2

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1.98 kryo-shaded 4.0.0

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1.100 libkqueue 1.0.6

1.101 log4j-api 2.11.0

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  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/45" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/BSD-2-Clause" />
  <meta name="MobileOptimized" content="width" />
  <title>The 2-Clause BSD License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-
fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

  <!--[if (lt IE 9)]>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ooglib" media="all" />
  <![endif]-->

  <!-- HTML5 element support for IE6-8 -->
```

```

<!--[if lt IE 9]>
  <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
    if($(this).scrollTop() != 0) {
      $("#toTop").fadeIn();
    } else {
      $("#toTop").fadeOut();
    }
  });

  $("#toTop").click(function() {
    $("body,html").animate({scrollTop:0},800);
  });

});
//--><![>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKak2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{ "basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"5zgPqYOzHVgnE
xJIcrUNS_N9O3OCNbyDu2b-rz4ozIg"},"js":{"\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol

```

```

lom\mollom.css":1,"modules\node\node.css":1,"modules\search\search.css":1,"modules\user\user.css":1,"sites\
all\modules\views\css\views.css":1,"sites\all\modules\ctools\css\ctools.css":1,"\maxcdn.bootstrapcdn.com\
bootstrap\3.2.0\css\bootstrap.min.css":1,"sites\all\libraries\superfish\css\superfish.css":1,"sites\all\themes\bo
otstrap-business\css\style.css":1,"sites\all\themes\bootstrap-
business\color\colors.css":1,"sites\all\themes\bootstrap-business\css\local.css":1,"sites\all\themes\bootstrap-
business\css\ie8.css":1}},urlIsAjaxTrusted":{"\licenses\bsd-
license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u002
7fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"windo
w_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":fa
lse,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extr
aWidth":1}}}}});

```

```
//--<![>
```

```
</script>
```

```
</head>
```

```
<body class="html not-front not-logged-in no-sidebars page-node page-node- page-node-45 node-type-page" >
```

```
<div id="skip-link">
```

```
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
```

```
</div>
```

```
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>
```

```
<!-- #header-top -->
```

```
<div id="header-top" class="clearfix">
```

```
<div class="container">
```

```
<!-- #header-top-inside -->
```

```
<div id="header-top-inside" class="clearfix">
```

```
<div class="row">
```

```
<div class="col-md-8">
```

```
<!-- #header-top-left -->
```

```
<div id="header-top-left" class="clearfix">
```

```
<div class="region region-header-top-left">
```

```
<div id="block-menu-secondary-menu" class="block block-menu clearfix">
```

```
<div class="content">
```

```
<ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
```

```
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
```

```
<li class="leaf"><a href="/contact" title="">Contact</a></li>
```

```
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
```

```
</ul> </div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF:#header-top-left -->
```

```
</div>
```



```

        <div class="col-md-4">
        <!-- #header-top-right -->
        <div id="header-top-right" class="clearfix">
            <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/bsd-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
        <h2 class="element-invisible">Search form</h2>
        <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) { this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) { this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
6xmGQUbpVd1U0SKdWfuJe4IuZO3jmemfJvi1vG55FT0" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form> </div>
</div>
</div>
        </div>
        <!-- EOF:#header-top-right -->
        </div>

        </div>
        </div>
        <!-- EOF: #header-top-inside -->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

        <!-- #header-inside -->
        <div id="header-inside" class="clearfix">
            <div class="row">
                <div class="col-md-8">

                    <div id="logo">

```

```
    <a href="/" title="Home" rel="home">  </a>
</div>
```

```
    <div id="site-name">
    <a href="/" title="Home">Open Source Initiative</a>
    </div>
```

```
</div>
```

```
<div class="col-md-4">
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<!-- EOF: #header-inside -->
```

```
</div>
```

```
</header>
```

```
<!-- EOF: #header -->
```

```
<!-- #main-navigation -->
```

```
<div id="main-navigation" class="clearfix">
```

```
<div class="container">
```

```
<!-- #main-navigation-inside -->
```

```
<div id="main-navigation-inside" class="clearfix">
```

```
<div class="row">
```

```
<div class="col-md-12">
```

```
<nav role="navigation">
```

```
<div class="region region-navigation">
```

```
<div id="block-superfish-1" class="block block-superfish clearfix">
```

```
<div class="content">
```

```
<ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle
even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a
href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1"
class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With
Annotations" class="sf-depth-3">Board - Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-
depth-3 sf-no-children"><a href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-
3">Minutes</a></li><li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a
```

[Organization & Operations](/organization "These portfolios represent the activities of the current OSI board.")

- [Articles of Incorporation](/articles-of-incorporation "OSI incorporation record")
- [Board Elections](/elections)
- [Bylaws](/bylaws "Bylaws of the Open Source Initiative")
- [Conflict of Interest](/conflict_of_interest_policy)
- [Trademark & Logo](/trademark)
 - [Trademark Guidelines](/trademark-guidelines "OSI's Trademark Policy")
 - [Logo Guidelines](/logo-usage-guidelines "Guidelines for appearance and usage of OSI Logo")
 - [Terms of Service](/ToS "Rules for posting content on this site")
 - [Licenses](/licenses)
 - [Open Source Definition](/osd "The actual OSD defining what constitutes an Open Source licence")
 - [OSD - Annotated](/osd-annotated "The OSD with explanations and rationale interspersed.")
 - [Licenses by Category](/licenses/category "Licenses by Category")
 - [Licenses by Name](/licenses/alphabetical "Licenses that are approved by the OSI as conforming to the OSD")
 - [License Review Process](/approval "Certifying licences as OSD-compliant")
 - [Licence Proliferation](/proliferation "Supporting choice while maintaining sanity")
 - [LP report to the Board](/proliferation-report "License Proliferation Committee's report to the OSI Board")
 - [Open Standards](/osr-intro "Open Standards Requirement for Software")
 - [The Open Standards Requirement](/osr "An 'open standard' must not prohibit conforming implementations in open source software.")
 - [Open Standards Requirement Compliance](/osr-compliance)
 - [Open Standards Requirement Rationale](/osr-rationale)
 - [OSR Frequently Asked Questions](/osr-faq "Frequently asked questions about the Open Standards Requirement")
 - [Membership](/membership "Page for our various membership programs")
 - [Individuals](/members)
 - [---

Open Source Used In Cisco Crosswork Situation Manager 6.5](/civicrm/contribute/transact?reset=1&id=1)

depth-3">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy on Public Communications and Archives<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">OSI Board Blog<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Bibliography<li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children">Open Source Case for Business<li id="menu-1514-1" class="middle even sf-item-4 sf-depth-2 sf-no-children">Working Groups<li id="menu-12-1" class="last odd sf-item-5 sf-depth-2 sf-no-children">Open Source Education<li id="menu-1844-1" class="last even sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">News & Events<li id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">Newsletters<li id="menu-1999-1" class="last even sf-item-2 sf-depth-2 sf-no-children">Events </div>

```

        </nav>
    </div>
</div>
</div>
<!-- EOF: #main-navigation-inside -->

</div>
</div>
<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page" class="clearfix">

<!-- #main-content -->
<div id="main-content">
    <div class="container">

        <!-- #messages-console -->
            <!-- EOF: #messages-console -->

        <div class="row">

            <section class="col-md-12">

                <!-- #main -->
                <div id="main" class="clearfix">

                    <!-- EOF:#content-wrapper -->
                    <div id="content-wrapper">

                        <h1 class="page-title">The 2-Clause BSD License</h1>

                        <!-- #tabs -->
                            <div class="tabs">
                                </div>
                            <!-- EOF: #tabs -->

                        <!-- #action links -->
                            <!-- EOF: #action links -->

                        <div class="region region-content">

```

```

<div id="block-system-main" class="block block-system clearfix">

<div class="content">
  <article id="node-45" class="node node-page clearfix">

<div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: BSD-2-Clause
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>2-clause BSD license</b></button>

<p id="demo"></p>

<script>
<!----><![CDATA[// ><!--

function myFunction() {
  var x;
  if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it
does not endorse any content, contributors or license interpretations from these websites. Any links to these
resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor
any of the mentioned resources, but instead provides them as separate third-party resource to help inform your
opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational
purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions
about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
    x = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/bsd-2-clause-license-%28freebsd%29 style='font-weight: bold;'>The BSD 2-
Clause License on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License
List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a
href=choosealicense.com>Choosealicense";
  } else {
    x = " ";
  }
  document.getElementById("demo").innerHTML = x;
}

//--><![]]>
</script></div>

<p><em>Note: This license has also been called the "Simplified BSD License" and the "FreeBSD License". See
also the <a href="/licenses/BSD-3-Clause">3-clause BSD License</a>.</em></p>

```

<p>Copyright <YEAR> <COPYRIGHT HOLDER>
</p>

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

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

```

<!-- EOF:#main-content -->

</div>
<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">

            <div class="region region-footer">
              <div id="block-block-11" class="block block-block clearfix">

                <div class="content">
                  <div class="filler" style="vertical-align: middle; display: inline-block;">
                <p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
                <a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
                vertical-align: middle;"></a>

                <a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
                center; vertical-align: middle;"></a>

                <a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
                cell; text-align: center; vertical-align: middle;"></a>

                <a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
                middle;"></a>

                <a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
                center; vertical-align: middle;"></a>

                <script id="fbwiuwz">
                <!--//--><![CDATA[// ><!--
                (function(i){var

```



```
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&url=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.insertBefore(f,s;)}('fbwiuwz');
//--><![ ]>
</script></p>
</div>
```

```
<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
Opensource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="..ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">
```

```
<div class="content">
<script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
//--><![ ]>
</script><script type="text/javascript">
<!--/--><![CDATA[// ><!--
```

```
_uacct = "UA-3916956-1";
urchinTracker();
```

```
//--><![ ]>
</script> </div>
</div>
</div>
```

```
</div>
<!-- EOF: #subfooter-left -->
</div>
</div>
</div>
<!-- EOF: #subfooter-inside -->
```

```
</div>
</footer>
<!-- EOF:#subfooter -->
```

</body>
</html>

1.107 momentjs 2.16

1.107.1 Available under license :

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1.108 nginx 1.14.0

1.108.1 Available under license :

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1.125 org.osgi.core 4.2.0

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1.126 osgi-resource-locator 1.0.1

1.126.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"  
"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html lang="en-US">
```

```
<head>
```

```
<title>GlassFish Dual License Header and License Notice GPL v2 and CDDL</title>
```

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

```
<style type="text/css">
```

```
li { display: block;}
```

</style>

</head>

<body leftmargin="0" topmargin="0" marginheight="0" marginwidth="0" bgcolor="#ffffff">

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1.130 radial-progress-chart 0.0.3

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1.132 rest 5.2.0

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1.133 rhino 1.7R4

1.134 rxjs 5.5.5

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1.135 shiro-core 1.2.6

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*/

```

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

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

import org.apache.shiro.authz.Permission;

/**
 * A { @code PermissionResolver } resolves a String value and converts it into a
 * { @link org.apache.shiro.authz.Permission Permission } instance.
 * <p/>
 * The default { @link WildcardPermissionResolver } should be
 * suitable for most purposes, which constructs { @link WildcardPermission } objects.
 * However, any resolver may be configured if an application wishes to use different
 * { @link org.apache.shiro.authz.Permission } implementations.
 * <p/>
 * A { @code PermissionResolver } is used by many Shiro components such as annotations, property file
 * configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
 * and that String needs to be converted to a Permission instance before executing a security check.
 * <p/>
 * Shiro chooses to support { @link WildcardPermission Wildcardpermission }s by default in almost all components
 * and
 * we do that in the form of the { @link WildcardPermissionResolver WildcardPermissionResolver }. One of the
 * nice

```

```

* things about { @code WildcardPermission}s being supported by default is that it makes it very easy to
* store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
* annotations, etc., where a simple string representation is useful.
* <p/>
* Although this happens to be the Shiro default, you are of course free to provide custom
* String-to-Permission conversion by providing Shiro components any instance of this interface.
*
* @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
ModularRealmAuthorizer.setPermissionResolver
* @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
AuthorizingRealm.setPermissionResolver
* @see PermissionResolverAware PermissionResolverAware
* @since 0.9
*/
public interface PermissionResolver {

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

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

import org.apache.shiro.authz.Permission;

```

```

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

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

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

import org.apache.shiro.authz.Permission;

import java.util.Collection;

/**

```

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

```
public interface RolePermissionResolver {
```

```
/**
```

```
* Resolves a Collection of Permissions based on the given String representation.
```

```
*
```

```
* @param roleString the String representation of a role name to resolve.
```

```
* @return a Collection of Permissions based on the given String representation.
```

```
*/
```

```
Collection<Permission> resolvePermissionsInRole(String roleString);
```

```
}
```

```
/*
```

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```

```
*/
```

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

```
/**
```

```
* Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>  

  that
```

```
* might already exist instead of potentially creating one itself.
```

```
*
```

```
* <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
```

```
* { @link org.apache.shiro.realm.Realm Realm } implementations since they
```

```
* are the ones performing permission checks and need to know how to resolve Strings into
```

```
* { @link org.apache.shiro.authz.Permission Permission } instances.
```

```
*
```

```

* @since 0.9
*/
public interface PermissionResolverAware {

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

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

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

/**
 * A <code>WildcardPermission</code> is a very flexible permission construct supporting multiple levels of
 * permission matching. However, most people will probably follow some standard conventions as explained below.
 * <p/>
 * <h3>Simple Usage</h3>
 * <p/>
 * In the simplest form, <code>WildcardPermission</code> can be used as a simple permission string. You could

```


grant a

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

* permission by calling

* `<p/>`

* `<code>subject.isPermitted("editNewsletter")</code>`

* `<p/>`

* This is (mostly) equivalent to

* `<p/>`

* `<code>subject.isPermitted(new WildcardPermission("editNewsletter"))</code>`

* `<p/>`

* but more on that later.

* `<p/>`

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

* `<code>"viewNewsletter"</code>`, `<code>"deleteNewsletter"</code>`,

* `<code>"createNewsletter"</code>`, etc. You can also grant a user `<code>"*"</code>` permissions

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

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

* `<p/>`

* For this reason, `<code>WildcardPermission</code>` supports multiple *levels* of permissioning.

* `<p/>`

*

Multiple Levels

* `<p/>`

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

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

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

* next token in the permission.

* `<p/>`

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

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

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

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

`<code>newsletter</code>`

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

* permission by calling

* `<p/>`

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

* `<p/>`

* (which would return true).

* `<p/>`

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

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

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

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

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

* `<p/>`

*

Instance-level Access Control

* `<p/>`

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

Lists.

* In this scenario you use three tokens - the first is the `domain`, the second is the `action`, and the third is the `instance` you are acting on.

* `<p/>`

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

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

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

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

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

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

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

* `<p/>`

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

* permission check like so:

* `<p/>`

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

* `<p/>`

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

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

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

*

* @since 0.9

*/

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

```
    //TODO - JavaDoc methods
```

```
    /*-----
```

```
    |   C O N S T A N T S   |
```

```
    =====*/
```

```
    protected static final String WILDCARD_TOKEN = "*";
```

```
    protected static final String PART_DIVIDER_TOKEN = ":";
```

```
    protected static final String SUBPART_DIVIDER_TOKEN = ",";
```

```
    protected static final boolean DEFAULT_CASE_SENSITIVE = false;
```

```
    /*-----
```

```
    | I N S T A N C E   V A R I A B L E S   |
```

```
    =====*/
```

```
    private List<Set<String>> parts;
```

```
    /*-----
```

```
    |   C O N S T R U C T O R S   |
```

```
    =====*/
```

```
    /**
```

* Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must

* provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.

* `<p/>`

* Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you wish to create type-safe Permission objects that would be used in your application, such as perhaps a { @code UserPermission }, { @code SystemPermission }, { @code PrinterPermission }, etc. If you want such type-safe

* permission usage, consider subclassing the { @link DomainPermission DomainPermission } class for your needs.

```
*/
protected WildcardPermission() {
}

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

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

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

protected void setParts(String wildcardString, boolean caseSensitive) {
    wildcardString = StringUtils.clean(wildcardString);

    if (wildcardString == null || wildcardString.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission strings are properly formatted.");
    }

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

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

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

```

    }
}

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

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

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

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

    WildcardPermission wp = (WildcardPermission) p;

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

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

    // If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards

```

```

    for (; i < getParts().size(); i++) {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN)) {
            return false;
        }
    }

    return true;
}

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

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

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

}
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```

```

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

import org.apache.shiro.ShiroException;

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

    private String permissionString;

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

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

}

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```

```

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

/**
 * Interface implemented by a component that wishes to use any application-configured
 * <tt>RolePermissionResolver</tt> that
 * might already exist instead of potentially creating one itself.
 *
 * <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
 * { @link org.apache.shiro.realm.Realm Realm } implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * { @link org.apache.shiro.authz.Permission Permission } instances.
 *
 * @since 1.0
 */
public interface RolePermissionResolverAware {

    /**
     * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
     *
     * @param rpr the <tt>RolePermissionResolver</tt> being set.
     */
    public void setRolePermissionResolver(RolePermissionResolver rpr);
}

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```

```

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

import java.io.Serializable;

import org.apache.shiro.authz.Permission;

/**
 * An all AllPermission instance is one that always implies any other permission; that is, its
 * { @link #implies implies } method always returns <tt>>true</tt>.
 *
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 *
 * @since 0.1
 */
public class AllPermission implements Permission, Serializable {

    /**
     * Always returns <tt>>true</tt>, indicating any Subject granted this permission can do anything.
     *
     * @param p the Permission to check for implies logic.
     * @return <tt>>true</tt> always, indicating any Subject granted this permission can do anything.
     */
    public boolean implies(Permission p) {
        return true;
    }
}

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```



```

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*/
package org.apache.shiro.authz;

/**
* A Permission represents the ability to perform an action or access a resource. A Permission is the most
* granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security
* models are built.
* <p/>
* It is important to understand a Permission instance only represents functionality or access - it does not grant it.
* Granting access to an application functionality or a particular resource is done by the application's security
* configuration, typically by assigning Permissions to users, roles and/or groups.
* <p/>
* Most typical systems are what the Shiro team calls <em>role-based</em> in nature, where a role represents
* common behavior for certain user types. For example, a system might have an <em>Administrator</em> role, a
* <em>User</em> or <em>Guest</em> roles, etc.
* <p/>
* But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code
* role names in your code. In this environment, roles themselves aren't very useful. What matters is what
* <em>permissions</em> are assigned to these roles.
* <p/>
* Under this paradigm, permissions are immutable and reflect an application's raw functionality
* (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy
* to be dynamic: because Permissions represent raw functionality and only change when the application's
* source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and
* groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of
* associating Permissions to roles, users, and groups in some way.
* <p/>
* Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of
* Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive
* association, the user 'has' the permissions in their roles. There are numerous variations on this theme
* (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn
* have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles,
* and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security
* model.
* <p/>
* A benefit to Shiro is that, although it assumes most systems are based on these types of static role or
* dynamic role w/ permission schemes, it does not require a system to model their security data this way - all
* Permission checks are relegated to { @link org.apache.shiro.realm.Realm } implementations, and only those
* implementations really determine how a user 'has' a permission or not. The Realm could use the semantics
* described
* here, or it could utilize some other mechanism entirely - it is always up to the application developer.
* <p/>
* Shiro provides a very powerful default implementation of this interface in the form of the
* { @link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission }. We highly recommend that

```

```

you
* investigate this class before trying to implement your own <code>Permission</code>s.
*
* @see org.apache.shiro.authz.permission.WildcardPermission WildcardPermission
* @since 0.2
*/
public interface Permission {

    /**
     * Returns { @code true} if this current instance <em>implies</em> all the functionality and/or resource access
     * described by the specified { @code Permission} argument, { @code false} otherwise.
     * <p/>
     * <p>That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality
     * and/or resource access described by the given { @code Permission} argument. Yet another way of saying this
     * would be:
     * <p/>
     * <p>If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code> ,
     * then any Subject granted { @code permission1} would have ability greater than or equal to that defined by
     * { @code permission2}.
     *
     * @param p the permission to check for behavior/functionality comparison.
     * @return { @code true} if this current instance <em>implies</em> all the functionality and/or resource access
     *         described by the specified { @code Permission} argument, { @code false} otherwise.
     */
    boolean implies(Permission p);
}

```

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1.136 slf4j api 1.7.21

1.137 slf4j-api 1.7.5

1.138 slf4j-api 1.7.25

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1.139 slf4j-api 1.6.4

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1.140 slf4j-nop 1.7.5

1.141 slf4j-simple 1.7.5

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1.147 snmp4j 2.5.2

1.148 snmp4j 2.6.2

1.149 snowball-libstemmer 1.0

1.150 spring-core 4.3.7 release

1.151 Stax2-api 3.1.1

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Wed, 2010-03-31 14:02 administrator

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1.152 tomcat-native 1.2.16 :1.e17

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1.153 twilio 7.11.0

1.154 velocity 1.7

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1.155 vue-router 3.0.1

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1.156 vue-rx 5.0.0

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1.157 VueJS 2.5.13

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1.158 woden-core 1.0M10

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1.161 WSDL4J 1.6.2 :0

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1.162 xml-serializer 2.7.2

1.163 XmlBeans 2.5.0

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1.164 XmlSchema Core 2.2.1

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