Open Source Used In Crosswork Situation Manager V7.1

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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1.11 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:

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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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  *

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

/**
 * A contributor to the attack and their contribution.
 */
@Generated("com.amazonaws:aws-java-sdk-code-generator")
public class Contributor implements Serializable, Cloneable, StructuredPojo {

/**
 * 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>.
 */
private String name;

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

/**
 * 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>.
 */
private String name;

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

}
public void setName(String name) {
    this.name = 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 String getName() {
    return this.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 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>.
 *
 * @return 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 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>
 *
 * @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 Long getValue() {
    return this.value;
}
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() {
    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 IllegalArgumentException("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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 * and limitations under the License.
 */
package com.amazonaws.services.workmail.model;

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

/**<p>Permission granted to an entity (user, group) to access a certain aspect of another entity's mailbox. </p>**/
@see <a href="http://docs.aws.amazon.com/goto/WebAPI/workmail-2017-10-01/Permission" target="_top">AWS API Documentation</a>
@Generated("com.amazonaws:aws-java-sdk-code-generator")
public class Permission implements Serializable, Cloneable, StructuredPojo {

/**
 * The identifier of the entity (user or group) to which the permissions are granted.
 */
private String granteeId;

*/
private String granteeType;
/**
 * <p>
 * The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the mailbox (the
 * grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send email on behalf of the owner
 * of the mailbox (the grantee is not mentioned as the physical sender of these emails). FULL_ACCESS allows the
 * grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.
 * </p>
 */
private java.util.List<String> permissionValues;

/**
 * <p>
 * The identifier of the entity (user or group) to which the permissions are granted.
 * </p>
 *
 * @param granteeId
 * The identifier of the entity (user or group) to which the permissions are granted.
 */
public void setGranteeId(String granteeId) {
    this.granteeId = granteeId;
}

/**
 * <p>
 * The identifier of the entity (user or group) to which the permissions are granted.
 * </p>
 *
 * @return The identifier of the entity (user or group) to which the permissions are granted.
 */
public String getGranteeId() {
    return this.granteeId;
}
public Permission withGranteeId(String granteeId) {
    setGranteeId(granteeId);
    return this;
}

/**
 * <p>
 * The type of entity (user, group) of the entity referred to in GranteeId.
 * </p>
 *
 * @param granteeType
 * The type of entity (user, group) of the entity referred to in GranteeId.
 * @see MemberType
 */

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

/**
 * <p>
 * The type of entity (user, group) of the entity referred to in GranteeId.
 * </p>
 *
 * @return The type of entity (user, group) of the entity referred to in GranteeId.
 * @see MemberType
 */

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

/**
 * <p>
 * The type of entity (user, group) of the entity referred to in GranteeId.
 * </p>
 *
 * @param granteeType
 * The type of entity (user, group) of the entity referred to in GranteeId.
 * @return Returns a reference to this object so that method calls can be chained together.
 * @see MemberType
 */

public Permission withGranteeType(String granteeType) {
    setGranteeType(granteeType);
    return this;
}
/**
 * <p>
 * The type of entity (user, group) of the entity referred to in GranteeId.
 * </p>
 * @param granteeType
 *        The type of entity (user, group) of the entity referred to in GranteeId.
 * @return Returns a reference to this object so that method calls can be chained together.
 * @see MemberType
 */

public Permission withGranteeType(MemberType granteeType) {
    this.granteeType = granteeType.toString();
    return this;
}

/**
 * <p>
 * The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the mailbox
 * (the
 * grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send email on behalf of
 * the owner
 * of the mailbox (the grantee is not mentioned as the physical sender of these emails). FULL_ACCESS allows the
 * grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.
 * </p>
 * @return The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the
 *         mailbox (the grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send
 * email
 *         on behalf of the owner of the mailbox (the grantee is not mentioned as the physical sender of these
 *         emails). FULL_ACCESS allows the grantee full access to the mailbox, irrespective of other folder-level
 *         permissions set on the mailbox.
 * @see PermissionType
 */

public java.util.List<String> getPermissionValues() {
    return permissionValues;
}
The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the mailbox (the grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send email on behalf of the owner of the mailbox (the grantee is not mentioned as the physical sender of these emails). FULL_ACCESS allows the grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.

NOTE: This method appends the values to the existing list (if any). Use { @link #setPermissionValues(java.util.Collection) } or { @link #withPermissionValues(java.util.Collection) } if you want to override the existing values.

```java
public Permission withPermissionValues(String... permissionValues) {
    public void setPermissionValues(java.util.Collection<String> permissionValues) {
        if (permissionValues == null) {
            this.permissionValues = null;
            return;
        }
        this.permissionValues = new java.util.ArrayList<String>(permissionValues);
    }
    /*
     * @param permissionValues
     *        The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the
     *        mailbox (the grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send
     * email on
     *        behalf of the owner of the mailbox (the grantee is not mentioned as the physical sender of these emails).
     *        FULL_ACCESS allows the grantee full access to the mailbox, irrespective of other folder-level permissions
     * set on the mailbox.
     * @see PermissionType
     */
```

```java
public void setPermissionValues(java.util.Collection<String> permissionValues) {
    if (permissionValues == null) {
        this.permissionValues = null;
        return;
    }
    this.permissionValues = new java.util.ArrayList<String>(permissionValues);
}
```
if (this.permissionValues == null) {
    setPermissionValues(new java.util.ArrayList<String>(permissionValues.length));
}
for (String ele : permissionValues) {
    this.permissionValues.add(ele);
}
return this;

/**
 * <p>
 * The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the mailbox (the
 * grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send email on behalf of the
 * owner of the mailbox (the grantee is not mentioned as the physical sender of these emails). FULL_ACCESS allows the
 * grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.
 * </p>
 *
 * @param permissionValues
 *        The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the
 *        mailbox (the grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send
 *        email on behalf of the owner of the mailbox (the grantee is not mentioned as the physical sender of these emails).
 *        FULL_ACCESS allows the grantee full access to the mailbox, irrespective of other folder-level permissions
 *        set on the mailbox.
 * @return Returns a reference to this object so that method calls can be chained together.
 * @see PermissionType
 */

public Permission withPermissionValues(java.util.Collection<String> permissionValues) {
    setPermissionValues(permissionValues);
    return this;
}

/**
 * <p>
 * The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the mailbox (the
 * grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send email on behalf of the
 * owner of the mailbox (the grantee is not mentioned as the physical sender of these emails). FULL_ACCESS allows the
 * grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.
 * </p>
 *
 * @param permissionValues
 *        The permissions granted to the grantee. SEND_AS allows the grantee to send email as the owner of the
 *        mailbox (the grantee is not mentioned on these emails). SEND_ON_BEHALF allows the grantee to send email on behalf of the
 *        owner of the mailbox (the grantee is not mentioned as the physical sender of these emails). FULL_ACCESS allows the
 *        grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.
 * @return Returns a reference to this object so that method calls can be chained together.
 */
email on behalf of the owner of the mailbox (the grantee is not mentioned as the physical sender of these emails).

FULL_ACCESS allows the grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.

@return Returns a reference to this object so that method calls can be chained together.

@see PermissionType

 public Permission withPermissionValues(PermissionType... permissionValues) {
     java.util.ArrayList<String> permissionValuesCopy = new java.util.ArrayList<String>(permissionValues.length);
     for (PermissionType value : permissionValues) {
         permissionValuesCopy.add(value.toString());
     }
     if (getPermissionValues() == null) {
         setPermissionValues(permissionValuesCopy);
     } else {
         getPermissionValues().addAll(permissionValuesCopy);
     }
     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 (getGranteeId() != null)
         sb.append("GranteeId: ").append(getGranteeId()).append(",");
     if (getGranteeType() != null)
         sb.append("GranteeType: ").append(getGranteeType()).append(",");
     if (getPermissionValues() != null)
         sb.append("PermissionValues: ").append(getPermissionValues());
     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.getGranteeId() == null ^ this.getGranteeId() == null)
    return false;
if (other.getGranteeId() != null && other.getGranteeId().equals(this.getGranteeId()) == false)
    return false;
if (other.getGranteeType() == null ^ this.getGranteeType() == null)
    return false;
if (other.getGranteeType() != null && other.getGranteeType().equals(this.getGranteeType()) == false)
    return false;
if (other.getPermissionValues() == null ^ this.getPermissionValues() == null)
    return false;
if (other.getPermissionValues() != null && other.getPermissionValues().equals(this.getPermissionValues()) == false)
    return false;
return true;
}

@Override
public int hashCode() {
    final int prime = 31;
    int hashCode = 1;
    hashCode = prime * hashCode + ((getGranteeId() == null) ? 0 : getGranteeId().hashCode());
    hashCode = prime * hashCode + ((getGranteeType() == null) ? 0 : getGranteeType().hashCode());
    hashCode = prime * hashCode + ((getPermissionValues() == null) ? 0 : getPermissionValues().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.workmail.model.transform.PermissionMarshaller.getInstance().marshall(this,
    protocolMarshaller);
}
package com.amazonaws.services.greengrass.model;

import javax.annotation.Generated;

/**
 * The type of permission a function has 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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permissions
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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")

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public class Permission implements Serializable, Cloneable, StructuredPojo {

    /**
     * A stack ID.
     */
    private String stackId;

    /**
     * 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>.
     */
    private String iamUserArn;

    /**
     * Whether the user can use SSH.
     */
    private Boolean allowSsh;

    /**
     * Whether the user can use <b>sudo</b>.
     */
    private Boolean allowSudo;

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

```java
/**
 * A stack ID.
 */

private String level;

/**
 * A stack ID.
 */

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

/**
 * A stack ID.
 */

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

/**
 * 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;
}

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

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

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

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

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

public String getIamUserArn() {
    return this.iamUserArn;
The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more information about IAM ARNs, see Using Identifiers. @param iamUserArn The Amazon Resource Name (ARN) for an AWS Identity and Access Management (IAM) role. For more information about IAM ARNs, see Using Identifiers. @return Returns a reference to this object so that method calls can be chained together.

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

Whether the user can use SSH. @param allowSsh @return Whether the user can use SSH.

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

Whether the user can use SSH. @return Whether the user can use SSH.

public Boolean getAllowSsh() {
    return this.allowSsh;
}
/**
 * Whether the user can use SSH.
 *
 * @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;
}

/**
 * Whether the user can use SSH.
 *
 * @return Whether the user can use SSH.
 */

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

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

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

/**
 * Whether the user can use <b>sudo</b>.
 */
public Permission withAllowSudo(Boolean allowSudo) {
    setAllowSudo(allowSudo);
    return this;
}

/**
 * Whether the user can use <b>sudo</b>.
 */
public Boolean isAllowSudo() {
    return this.allowSudo;
}

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

/**
 * The user's permission level, which must be the following:
 * </p>
 * </ul>
 * </li>
 * </p>
 * </code>deny</code>
 * </p>
 * </li>
 * </p>
 * </code>show</code>
 * </p>
 * </li>
 * </p>
 * </code>deploy</code>
 * </p>
 * </li>
 * </p>
 * </code>manage</code>
 * </p>
 * </li>
 * </p>
 * </code>iam_only</code>
 * </p>
 * </li>
 * </ul>
 * </p>
 * For more information on the permissions associated with these levels, see <a
 * Permissions</a>
public String getLevel() {
    return this.level;
}

/**
 * The user's permission level, which must be the following:
 */

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

/**
 * The user's permission level, which must be the following:
 */

* <code>deny</code>
* </li>
* <li>
* <code>show</code>
* </li>
* <li>
* <code>deploy</code>
* </li>
* <li>
* <code>manage</code>
* </li>
* <li>
* <code>iam_only</code>
* </li>
* </ul>
* 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>
* `<code>deny</code>`
* `</p>`
* `</li>`
* `</li>`
* `<p>`
* `<code>show</code>`
* `</p>`
* `</li>`
* `<p>`
* `<code>deploy</code>`
* `</p>`
* `</li>`
* `<p>`
* `<code>manage</code>`
* `</p>`
* `</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>`
* `</li>`
* `<p>`
* `<code>deny</code>`
* `</p>`
* `</li>`
* `<li>`
* `<p>`
* `<code>show</code>`
* `</p>`
* `</li>`
* `<li>`
* `<p>`
* `<code>deploy</code>`
* `</p>`
* `</li>`
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());
    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);
}

import javax.annotation.Generated;

@Generated("com.amazonaws:aws-java-sdk-code-generator")
public enum Permission {
    ENABLED("ENABLED"),
    DISABLED("DISABLED");

    private String value;

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

    // Other methods and fields...

    public String getValue() {
        return value;
    }

    public static Permission fromValue(String value) {
        for (Permission enumValue : Permission.values()) {
            if (enumValue.getValue().equals(value)) {
                return enumValue;
            }
        }
        throw new IllegalArgumentException("Unexpected value " + value);
    }

    // Other methods...
}
}
@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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*
* Licensed under the Apache License, Version 2.0 (the "License").
* You may not use this file except in compliance with the License.
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* http://aws.amazon.com/apache2.0
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* 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.s3.model;
/**

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* Specifies constants defining an access permission,
* as granted to grantees in an
*{@link AccessControlList}. Only a limited set of permissions 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>
 */

Granting this permission is equivalent to granting <code>FULL_CONTROL</code> because
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;
}
return permission;
}

return null;
}

/*@
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* the License. A copy of the License is located at
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* 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;

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

/**
 * The type of value that appears in the Grantee object:
 */
<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>
</li>
</ul>
A canonical user ID is not the same as an AWS account number.

Email: The registered email address of an AWS account.

Group: One of the following predefined Amazon S3 groups: AllUsers, AuthenticatedUsers, or LogDelivery.

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.

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

* <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.

private com.amazonaws.internal.SdkInternalList<String> access;

/**
 * The type of value that appears in the Grantee object:
 */
@importan

* <code>Canonical</code>: Either the canonical user ID for an AWS account or an origin access identity for an Amazon CloudFront distribution.

* <code>Email</code>: The registered email address of an AWS account.

* <code>Group</code>: One of the following predefined Amazon S3 groups: <code>AllUsers</code>, <code>AuthenticatedUsers</code>, or <code>LogDelivery</code>.

* @param granteeType
   * The type of value that appears in the Grantee object:
public void setGranteeType(String granteeType) {
    this.granteeType = 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>
 * </li>
 * <p>
 * A canonical user ID is not the same as an AWS account number.
 * </p>
 * </li>
 * <p>
 * <code>Email</code>: The registered email address of an AWS account.
 * </p>
 * </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>
 * */
* <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:
* 
* <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>
* <li>
* <important>
* <p>
* A canonical user ID is not the same as an AWS account number.
* </p>
* </important></li>
* </ul>
* <li>
* <p>
* <code>Email</code>: The registered email address of an AWS account.
* </p>
* </li>
* </ul>
* <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>
*/

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

/**
 * The type of value that appears in the Grantee object:
 * 
 * <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>
 * </li>
 * </ul>
 * <p>
 * A canonical user ID is not the same as an AWS account number.
public Permission withGranteeType(String granteeType) {
    setGranteeType(granteeType);
    return this;
}
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.

```java
public void setGrantee(String grantee) {
    this.grantee = 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.

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

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

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

/*
* The permission that you want to give to the AWS user that is listed in Grantee. Valid values include:
*<code>READ</code>: The grantee can read the thumbnails and metadata for thumbnails that Elastic Transcoder adds
* to the Amazon S3 bucket.
*<code>READ_ACP</code>: The grantee can read the object ACL for thumbnails that Elastic Transcoder adds
* to the Amazon S3 bucket.
*<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.
*/
* 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>
 * </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>
 * </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.
public void setAccess(java.util.Collection<String> access) {
    if (access == null) {
        this.access = null;
        return;
    }

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

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

### @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.
<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>
<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 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);
}
}

1.14 aws-java-sdk-cloudwatch 1.11.348

1.15 aws-java-sdk-core 1.11.348

1.16 aws-java-sdk-ec2 1.11.348

1.17 aws-java-sdk-logs 1.11.348

1.18 aws-java-sdk-s3 1.11.348

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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>
 */
 ReadAcp("READ_ACP", "x-amz-grant-read-acp"),

/*
 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;
}
return permission;
}
}

return null;
}

1.19 aws-java-sdk-sts 1.11.348

1.20 axiom-api 1.2.20

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1.21 axiom-impl 1.2.20

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1.22 axis2-adb 1.7.4

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contains test data from http://aspell.net/test/orig/batch0.tab.
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</head>

<body>

<!-- Navigation -->
<header>
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<div class="navbar-header">
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<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;<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>
</ul>
</div>
</div>
</nav>
</header>
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1.43 cryptacular 1.1.1
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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 elastic search 5.6.9

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##
* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##
* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##
* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
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1.67 httpcore 4.4.5

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<link href="/media/css/mpl-1-1-bundle.6bb9e5390c1.css" rel="stylesheet" type="text/css" />
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<body>
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Specification: JSR-919 JavaMail API ("Specification")
<br/>
Version: 1.6
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Status: Final Release
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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);
}
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 representation type
 * @see org.glassfish.jersey.server.wadl.WadlGenerator#createRequestRepresentation(org.glassfish.jersey.server.model.Resource,
 *      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
*/
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
*/
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);
}
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
 * @author Martin Grotzke (martin.grotzke at freiheit.com)
 */
@XmlElement(name = "doc")
protected List<Doc> docs;

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

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 */
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();
    }
}
```java
@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;
    }
    return wadlParam;
}
```
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 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 _externalGrammarDefinition;

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

    /**
     * @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 _externalGrammarDefinition.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 _externalGrammarDefinition.map.get(path);
    }
}
```java
/**
 * @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.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());
        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);
        }
    }

    requestURI = UriBuilder.fromUri(application.getUri()).build();
    requestURI = requestURI.replacingPath(  
        requestURI.getPath().substring(0, requestURI.getPath().lastIndexOf('/') + 1));  
    requestURI = requestURI.replacingPath(  
        requestURI.getPath().substring(0, requestURI.getPath().lastIndexOf('/') + 1));
    requestURI = requestURI.replacingPath(  
        requestURI.getPath().substring(0, requestURI.getPath().lastIndexOf('/') + 1));

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

    return wadlGenerationEnabled;
}
// 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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* holder.
*/
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;

/**<p>A context to obtain WADL-based information.</p>
* @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.
     */
}
/**
 * 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();

/**
 * 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
    public Set<String> getRegisteredClasses();
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
 * ApplicationEventListener application event listener.
 * The event contains the 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.
 * 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 Jersey application finished but the server might not be started and ready yet to serve requests (this will be indicated by the 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}.
 * <p/>
 * @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.
 * <p/>
 * @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}.
 * <p/>
 * @return Resource model of the deployed application.
 */
public ResourceModel getResourceModel();

}
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 [ApplicationEvent application events].
 * The implementation of this interface will be called for two kind of events:
 * application events and [RequestEvent request events]. This interface will listen to
 * all [ApplicationEvent.Type application event types]
 * but only to first request event which is the [RequestEvent.Type#START]. On this event the
 * application event listener can decide whether it will listen to the request and return [RequestEventListener
 * request event listener] for listening to further request events.
 * }
 */

*/
* 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).
*<p/>
* @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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Monitoring statistics and configuration of an application.

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.
     */
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();

1.102 jgrapht-core 0.9.1

1.103 jjwt 0.4

1.104 joda-time 2.8.2
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1.117 kryo-shaded 4.0.0

1.118 lanterna 2.1.3
1.118.1 Available under license :

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1.119 libkqueue 1.0.6

1.120 log4j-core 2.11.0
1.120.1 Available under license:

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1.125 Metrics Core 3.1.2

1.125.1 Available under license:

```html
<!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">
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <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">
</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;<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>
            </ul>
          </li>
        </ul>
      </div>
    </div>
  </nav>
</header>

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</body>
</html>
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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.
*/

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<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="/foundation/policies/conduct.html">Code of Conduct</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/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>
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1.127 minlog 1.3.0
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<meta name="viewport" content="width=device-width, initial-scale=1" />
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<meta name="HandheldFriendly" content="true" />
<link rel="shortlink" href="/node/45" />
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1.128 mockwebserver 3.11.0

1.129 momentjs 2.16

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1.130 netty-buffer 4.1.19.Final

1.131 netty-codec 4.1.19.Final

1.132 netty-codec-dns 4.1.19.Final
1.133 netty-codec-http 4.1.19.Final
1.135 netty-codec-socks 4.1.19.Final
1.136 netty-common 4.1.19.Final
1.137 netty-handler 4.1.19 Final
1.138 netty-handler-proxy 4.1.19-Final
1.139 netty-resolver 4.1.19.Final
1.140 netty-resolver-dns 4.1.19-Final
1.141 netty-transport 4.1.19.Final
1.142 nginx 1.14.0
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1.144 okhttp 3.11.0

1.145 okio 1.14.0

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1.146 opensaml-core 3.3.0

1.147 opensaml-messaging-api 3.3.0

1.148 opensaml-profile-api 3.3.0

1.149 opensaml-profile-impl 3.3.0
1.150 opensaml-saml-api 3.3.0

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1.153 opensaml-security-impl 3.3.0

1.154 opensaml-soap-api 3.3.0

1.155 opensaml-soap-impl 3.3.0

1.156 opensaml-storage-api 3.3.0

1.157 opensaml-storage-impl 3.3.0

1.158 opensaml-xmlsec-api 3.3.0

1.159 opensaml-xmlsec-impl 3.3.0
1.160 org.hamcrest-core 1.3

1.161 osgi-resource-locator 1.0.1

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"http://www.w3.org/TR/html4/loose.dtd">

<html lang="en-US">
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<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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JMS Client for Pivotal RabbitMQ 1.4.6 GA

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amqp-client-3.5.6-sources.jar\com\rabbitmq\tools\json\JSONWriter.java

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amqp-client-3.5.6-sources.jar\com\rabbitmq\client\impl\VariableLinkedBlockingQueue.java

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1.166 radial-progress-chart 0.0.3

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1.171 serializer 2.7.2
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 */

package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version {

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
}
public static String getVersion()
{
    return getProduct() +" " +getImplementationLanguage() +" " +getMajorVersionNum() +"." +getReleaseVersionNum() +"." +
    +( (getDevelopmentVersionNum() > 0) ?
        ("D" +getDevelopmentVersionNum()) : ("" +getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{  
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *   - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *   - API or behaviour change.
 *   - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

1.172 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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 */
import org.apache.shiro.authz.permission;

/**
 * A [@code PermissionResolver] resolves a String value and converts it into a
 * @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
 * ModularRealmAuthorizer.setPermissionResolver
 * @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
 * AuthorizingRealm.setPermissionResolver
 * @see PermissionResolverAware PermissionResolverAware
 */
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);
}

package org.apache.shiro.authz.permission;

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 * under the License.
 */

import org.apache.shiro.authz.Permission;

public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * <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>`
* */

```java
public Permission resolvePermission(String permissionString) {
    return new WildcardPermission(permissionString);
}
```

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* */
```

```java
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 Permission` instances.
 *  
 * In some cases a `@link org.apache.shiro.realm.Realm Realm` my 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.
     *  
     */
```
 Collection<Permission> resolvePermissionsInRole(String roleString);

 package org.apache.shiro.authz.permission;

 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);
}
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/>
 * 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.
 */
* 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 `<em>all</em>` permissions. But
  * using this approach there's no way to just say a user has "all newsletter permissions".

* For this reason, `<code>WildcardPermission</code>` supports multiple `<em>levels</em>` of permissioning.
* `<p/>
* `<h3>`Multiple Levels`/h3`
* `<p/>
* `<code>WildcardPermission</code>` also supports the concept of multiple `<em>levels</em>`: 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 `<em>domain</em>` that is being operated on
  * and the second token is the `<em>action</em>` 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
  * newsletter domain. Then you could check to see if the user has the `<code>"newsletter:create"</code>`
  * permission by calling
* `<p/>
* `<code>subject.isPermitted("newsletter:create")</code>
* `<p/>
* (which would return true).
* `<p/>
* In addition to granting multiple permissions via a single string, you can grant all permission for a particular
* level. So if you wanted to grant a user all actions in the `<code>newsletter</code>` domain, you could simply give
* them `<code>"newsletter:*"</code>`. Now, any permission check for `<code>"newsletter:XXX"</code>`
* will return `<code>true</code>`. It is also possible to use the wildcard token at the domain level (or both): so you
* could grant a user the `<code>"view"</code>` action across all domains `<code>"*:view"</code>`.
* `<p/>
* `<h3>`Instance-level Access Control`/h3`
* `<p/>
* Another common usage of the `<code>WildcardPermission</code>` is to model instance-level Access Control
* Lists. In this scenario you use three tokens - the first is the `<em>domain</em>`, the second is the `<em>action</em>` and
* the third is the `<em>instance</em>` 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>` and `<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>` for any newsletter, or
* <code>"newsletter:*:*"></code> (allow the user to perform <em>any</em> action on <em>any</em> 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.
* <p/>
* @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.
     * <p/>
     * 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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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
 * Thrown by {@link PermissionResolver#resolvePermission(String)} when the String being parsed is not
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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 * specific language governing permissions and limitations
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.
 *
 * 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
 * Permission instances.
 *
 * @since 1.0
 */

public interface RolePermissionResolverAware {

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

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     */

    package org.apache.shiro.authz.permission;

    import java.io.Serializable;

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

public class AllPermission implements Permission, Serializable {

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

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 */

package org.apache.shiro.authz;

/**
 * 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.
 */
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.

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

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 permissions are assigned to these roles.

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.

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.

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 the 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.

Shiro provides a very powerful default implementation of this interface in the form of the WildcardPermission class. We highly recommend that you investigate this class before trying to implement your own Permission classes.

public interface Permission {

    /**
     * Returns if this current instance implies all the functionality and/or resource access
     * described by the specified Permission argument, otherwise.
     */

That is, this current instance must be exactly equal to or a superset of the functionality and/or resource access described by the given Permission argument. Yet another way of saying this would be:

If "permission1 implies permission2", i.e. permission1.implies(permission2), then any Subject granted 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 true if this current instance implies all the functionality and/or resource access described by the specified Permission argument, false otherwise.

boolean implies(Permission p);

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1.174 slf4j-api 1.6.4
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*/

1.179 SnakeYAML 1.15

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1.182 snappy-java 1.1.2.6
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Wed, 2010-03-31 14:02 administrator

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1.91 tomcat-native 1.2.16 :1.el7

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1.193 validation-api 1.1.0.Final

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1.202 vue-range-slider 0.6.0

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1.203 vue-router 3.0.1

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1.204 vue-rx 5.0.0

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1.205 VueJS 2.5.13

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1.206 weaverjs 1.2

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1.207 woden-core 1.0M10

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1.208 woodstox-core-asl 4.2.0

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1.209 woodstox-core-asl 4.4.1

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