| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Resource.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/annotation/PreDestroy.html)   [**NEXT CLASS**](http://docs.google.com/javax/annotation/Resource.AuthenticationType.html) | [**FRAMES**](http://docs.google.com/index.html?javax/annotation/Resource.html)    [**NO FRAMES**](http://docs.google.com/Resource.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: REQUIRED | [OPTIONAL](#3znysh7) | DETAIL: [ELEMENT](#lnxbz9) |

## **javax.annotation**

Annotation Type Resource

[@Target](http://docs.google.com/java/lang/annotation/Target.html)([value](http://docs.google.com/java/lang/annotation/Target.html#value())={[TYPE](http://docs.google.com/java/lang/annotation/ElementType.html#TYPE),[FIELD](http://docs.google.com/java/lang/annotation/ElementType.html#FIELD),[METHOD](http://docs.google.com/java/lang/annotation/ElementType.html#METHOD)})  
[@Retention](http://docs.google.com/java/lang/annotation/Retention.html)([value](http://docs.google.com/java/lang/annotation/Retention.html#value())=[RUNTIME](http://docs.google.com/java/lang/annotation/RetentionPolicy.html#RUNTIME))  
public @interface **Resource**

The Resource annotation marks a resource that is needed by the application. This annotation may be applied to an application component class, or to fields or methods of the component class. When the annotation is applied to a field or method, the container will inject an instance of the requested resource into the application component when the component is initialized. If the annotation is applied to the component class, the annotation declares a resource that the application will look up at runtime.

Even though this annotation is not marked Inherited, deployment tools are required to examine all superclasses of any component class to discover all uses of this annotation in all superclasses. All such annotation instances specify resources that are needed by the application component. Note that this annotation may appear on private fields and methods of superclasses; the container is required to perform injection in these cases as well.

**Since:** Common Annotations 1.0

| **Optional Element Summary** | |
| --- | --- |
| [Resource.AuthenticationType](http://docs.google.com/javax/annotation/Resource.AuthenticationType.html) | [**authenticationType**](http://docs.google.com/javax/annotation/Resource.html#authenticationType())            The authentication type to use for this resource. |
| [String](http://docs.google.com/java/lang/String.html) | [**description**](http://docs.google.com/javax/annotation/Resource.html#description())            Description of this resource. |
| [String](http://docs.google.com/java/lang/String.html) | [**mappedName**](http://docs.google.com/javax/annotation/Resource.html#mappedName())            A product specific name that this resource should be mapped to. |
| [String](http://docs.google.com/java/lang/String.html) | [**name**](http://docs.google.com/javax/annotation/Resource.html#name())            The JNDI name of the resource. |
| boolean | [**shareable**](http://docs.google.com/javax/annotation/Resource.html#shareable())            Indicates whether this resource can be shared between this component and other components. |
| [Class](http://docs.google.com/java/lang/Class.html) | [**type**](http://docs.google.com/javax/annotation/Resource.html#type())            The Java type of the resource. |

### name

public abstract [String](http://docs.google.com/java/lang/String.html) **name**

The JNDI name of the resource. For field annotations, the default is the field name. For method annotations, the default is the JavaBeans property name corresponding to the method. For class annotations, there is no default and this must be specified.

**Default:**""

### type

public abstract [Class](http://docs.google.com/java/lang/Class.html) **type**

The Java type of the resource. For field annotations, the default is the type of the field. For method annotations, the default is the type of the JavaBeans property. For class annotations, there is no default and this must be specified.

**Default:**java.lang.Object.class

### authenticationType

public abstract [Resource.AuthenticationType](http://docs.google.com/javax/annotation/Resource.AuthenticationType.html) **authenticationType**

The authentication type to use for this resource. This may be specified for resources representing a connection factory of any supported type, and must not be specified for resources of other types.

**Default:**javax.annotation.Resource.AuthenticationType.CONTAINER

### shareable

public abstract boolean **shareable**

Indicates whether this resource can be shared between this component and other components. This may be specified for resources representing a connection factory of any supported type, and must not be specified for resources of other types.

**Default:**true

### mappedName

public abstract [String](http://docs.google.com/java/lang/String.html) **mappedName**

A product specific name that this resource should be mapped to. The name of this resource, as defined by the name element or defaulted, is a name that is local to the application component using the resource. (It's a name in the JNDI java:comp/env namespace.) Many application servers provide a way to map these local names to names of resources known to the application server. This mapped name is often a *global* JNDI name, but may be a name of any form.

Application servers are not required to support any particular form or type of mapped name, nor the ability to use mapped names. The mapped name is product-dependent and often installation-dependent. No use of a mapped name is portable.

**Default:**""

### description

public abstract [String](http://docs.google.com/java/lang/String.html) **description**

Description of this resource. The description is expected to be in the default language of the system on which the application is deployed. The description can be presented to the Deployer to help in choosing the correct resource.

**Default:**""

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Resource.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/annotation/PreDestroy.html)   [**NEXT CLASS**](http://docs.google.com/javax/annotation/Resource.AuthenticationType.html) | [**FRAMES**](http://docs.google.com/index.html?javax/annotation/Resource.html)    [**NO FRAMES**](http://docs.google.com/Resource.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: REQUIRED | [OPTIONAL](#3znysh7) | DETAIL: [ELEMENT](#lnxbz9) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).