| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PolicyQualifierInfo.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/java/security/cert/PolicyNode.html)   [**NEXT CLASS**](http://docs.google.com/java/security/cert/TrustAnchor.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/cert/PolicyQualifierInfo.html)    [**NO FRAMES**](http://docs.google.com/PolicyQualifierInfo.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.security.cert**

Class PolicyQualifierInfo

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.security.cert.PolicyQualifierInfo**

public class **PolicyQualifierInfo**extends [Object](http://docs.google.com/java/lang/Object.html)

An immutable policy qualifier represented by the ASN.1 PolicyQualifierInfo structure.

The ASN.1 definition is as follows:

PolicyQualifierInfo ::= SEQUENCE {  
 policyQualifierId PolicyQualifierId,  
 qualifier ANY DEFINED BY policyQualifierId }

A certificate policies extension, if present in an X.509 version 3 certificate, contains a sequence of one or more policy information terms, each of which consists of an object identifier (OID) and optional qualifiers. In an end-entity certificate, these policy information terms indicate the policy under which the certificate has been issued and the purposes for which the certificate may be used. In a CA certificate, these policy information terms limit the set of policies for certification paths which include this certificate.

A Set of PolicyQualifierInfo objects are returned by the [PolicyNode.getPolicyQualifiers](http://docs.google.com/java/security/cert/PolicyNode.html#getPolicyQualifiers()) method. This allows applications with specific policy requirements to process and validate each policy qualifier. Applications that need to process policy qualifiers should explicitly set the policyQualifiersRejected flag to false (by calling the [PKIXParameters.setPolicyQualifiersRejected](http://docs.google.com/java/security/cert/PKIXParameters.html#setPolicyQualifiersRejected(boolean)) method) before validating a certification path.

Note that the PKIX certification path validation algorithm specifies that any policy qualifier in a certificate policies extension that is marked critical must be processed and validated. Otherwise the certification path must be rejected. If the policyQualifiersRejected flag is set to false, it is up to the application to validate all policy qualifiers in this manner in order to be PKIX compliant.

**Concurrent Access**

All PolicyQualifierInfo objects must be immutable and thread-safe. That is, multiple threads may concurrently invoke the methods defined in this class on a single PolicyQualifierInfo object (or more than one) with no ill effects. Requiring PolicyQualifierInfo objects to be immutable and thread-safe allows them to be passed around to various pieces of code without worrying about coordinating access.

**Since:** 1.4

| **Constructor Summary** | |
| --- | --- |
| [**PolicyQualifierInfo**](http://docs.google.com/java/security/cert/PolicyQualifierInfo.html#PolicyQualifierInfo(byte%5B%5D))(byte[] encoded)            Creates an instance of PolicyQualifierInfo from the encoded bytes. |

| **Method Summary** | |
| --- | --- |
| byte[] | [**getEncoded**](http://docs.google.com/java/security/cert/PolicyQualifierInfo.html#getEncoded())()            Returns the ASN.1 DER encoded form of this PolicyQualifierInfo. |
| byte[] | [**getPolicyQualifier**](http://docs.google.com/java/security/cert/PolicyQualifierInfo.html#getPolicyQualifier())()            Returns the ASN.1 DER encoded form of the qualifier field of this PolicyQualifierInfo. |
| [String](http://docs.google.com/java/lang/String.html) | [**getPolicyQualifierId**](http://docs.google.com/java/security/cert/PolicyQualifierInfo.html#getPolicyQualifierId())()            Returns the policyQualifierId field of this PolicyQualifierInfo. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/security/cert/PolicyQualifierInfo.html#toString())()            Return a printable representation of this PolicyQualifierInfo. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### PolicyQualifierInfo

public **PolicyQualifierInfo**(byte[] encoded)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Creates an instance of PolicyQualifierInfo from the encoded bytes. The encoded byte array is copied on construction.

**Parameters:**encoded - a byte array containing the qualifier in DER encoding **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - thrown if the byte array does not represent a valid and parsable policy qualifier

| **Method Detail** |
| --- |

### getPolicyQualifierId

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

Returns the policyQualifierId field of this PolicyQualifierInfo. The policyQualifierId is an Object Identifier (OID) represented by a set of nonnegative integers separated by periods.

**Returns:**the OID (never null)

### getEncoded

public final byte[] **getEncoded**()

Returns the ASN.1 DER encoded form of this PolicyQualifierInfo.

**Returns:**the ASN.1 DER encoded bytes (never null). Note that a copy is returned, so the data is cloned each time this method is called.

### getPolicyQualifier

public final byte[] **getPolicyQualifier**()

Returns the ASN.1 DER encoded form of the qualifier field of this PolicyQualifierInfo.

**Returns:**the ASN.1 DER encoded bytes of the qualifier field. Note that a copy is returned, so the data is cloned each time this method is called.

### toString

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

Return a printable representation of this PolicyQualifierInfo.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a String describing the contents of this PolicyQualifierInfo

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PolicyQualifierInfo.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*** |
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[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.

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