| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Oid.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/org/ietf/jgss/MessageProp.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?org/ietf/jgss/Oid.html)    [**NO FRAMES**](http://docs.google.com/Oid.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#17dp8vu) |

## **org.ietf.jgss**

Class Oid

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **org.ietf.jgss.Oid**

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

This class represents Universal Object Identifiers (Oids) and their associated operations.

Oids are hierarchically globally-interpretable identifiers used within the GSS-API framework to identify mechanisms and name formats.

The structure and encoding of Oids is defined in ISOIEC-8824 and ISOIEC-8825. For example the Oid representation of Kerberos V5 mechanism is "1.2.840.113554.1.2.2"

The GSSName name class contains public static Oid objects representing the standard name types defined in GSS-API.

**Since:** 1.4

| **Constructor Summary** | |
| --- | --- |
| [**Oid**](http://docs.google.com/org/ietf/jgss/Oid.html#Oid(byte%5B%5D))(byte[] data)            Creates an Oid object from its ASN.1 DER encoding. |
| [**Oid**](http://docs.google.com/org/ietf/jgss/Oid.html#Oid(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) derOid)            Creates an Oid object from its ASN.1 DER encoding. |
| [**Oid**](http://docs.google.com/org/ietf/jgss/Oid.html#Oid(java.lang.String))([String](http://docs.google.com/java/lang/String.html) strOid)            Constructs an Oid object from a string representation of its integer components. |

| **Method Summary** | |
| --- | --- |
| boolean | [**containedIn**](http://docs.google.com/org/ietf/jgss/Oid.html#containedIn(org.ietf.jgss.Oid%5B%5D))([Oid](http://docs.google.com/org/ietf/jgss/Oid.html)[] oids)            A utility method to test if this Oid value is contained within the supplied Oid array. |
| boolean | [**equals**](http://docs.google.com/org/ietf/jgss/Oid.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) other)            Tests if two Oid objects represent the same Object identifier value. |
| byte[] | [**getDER**](http://docs.google.com/org/ietf/jgss/Oid.html#getDER())()            Returns the full ASN.1 DER encoding for this oid object, which includes the tag and length. |
| int | [**hashCode**](http://docs.google.com/org/ietf/jgss/Oid.html#hashCode())()            Returns a hashcode value for this Oid. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/org/ietf/jgss/Oid.html#toString())()            Returns a string representation of the oid's integer components in dot separated notation. |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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** |
| --- |

### Oid

public **Oid**([String](http://docs.google.com/java/lang/String.html) strOid)  
 throws [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html)

Constructs an Oid object from a string representation of its integer components.

**Parameters:**strOid - the dot separated string representation of the oid. For instance, "1.2.840.113554.1.2.2". **Throws:** [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html) - may be thrown when the string is incorrectly formatted

### Oid

public **Oid**([InputStream](http://docs.google.com/java/io/InputStream.html) derOid)  
 throws [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html)

Creates an Oid object from its ASN.1 DER encoding. This refers to the full encoding including tag and length. The structure and encoding of Oids is defined in ISOIEC-8824 and ISOIEC-8825. This method is identical in functionality to its byte array counterpart.

**Parameters:**derOid - stream containing the DER encoded oid **Throws:** [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html) - may be thrown when the DER encoding does not follow the prescribed format.

### Oid

public **Oid**(byte[] data)  
 throws [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html)

Creates an Oid object from its ASN.1 DER encoding. This refers to the full encoding including tag and length. The structure and encoding of Oids is defined in ISOIEC-8824 and ISOIEC-8825. This method is identical in functionality to its InputStream conterpart.

**Parameters:**data - byte array containing the DER encoded oid **Throws:** [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html) - may be thrown when the DER encoding does not follow the prescribed format.

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

### toString

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

Returns a string representation of the oid's integer components in dot separated notation.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**string representation in the following format: "1.2.3.4.5"

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) other)

Tests if two Oid objects represent the same Object identifier value.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**other - the Oid object that has to be compared to this one **Returns:**true if the two Oid objects represent the same value, false otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### getDER

public byte[] **getDER**()  
 throws [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html)

Returns the full ASN.1 DER encoding for this oid object, which includes the tag and length.

**Returns:**byte array containing the DER encoding of this oid object. **Throws:** [GSSException](http://docs.google.com/org/ietf/jgss/GSSException.html) - may be thrown when the oid can't be encoded

### containedIn

public boolean **containedIn**([Oid](http://docs.google.com/org/ietf/jgss/Oid.html)[] oids)

A utility method to test if this Oid value is contained within the supplied Oid array.

**Parameters:**oids - the array of Oid's to search **Returns:**true if the array contains this Oid value, false otherwise

### hashCode

public int **hashCode**()

Returns a hashcode value for this Oid.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hashCode value**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

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