| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PKCS8EncodedKeySpec.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/spec/MGF1ParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/PSSParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/PKCS8EncodedKeySpec.html)    [**NO FRAMES**](http://docs.google.com/PKCS8EncodedKeySpec.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.spec**

Class PKCS8EncodedKeySpec

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.security.spec.EncodedKeySpec](http://docs.google.com/java/security/spec/EncodedKeySpec.html)  
 **java.security.spec.PKCS8EncodedKeySpec**

**All Implemented Interfaces:** [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html)

public class **PKCS8EncodedKeySpec**extends [EncodedKeySpec](http://docs.google.com/java/security/spec/EncodedKeySpec.html)

This class represents the ASN.1 encoding of a private key, encoded according to the ASN.1 type PrivateKeyInfo. The PrivateKeyInfo syntax is defined in the PKCS#8 standard as follows:

PrivateKeyInfo ::= SEQUENCE {  
 version Version,  
 privateKeyAlgorithm PrivateKeyAlgorithmIdentifier,  
 privateKey PrivateKey,  
 attributes [0] IMPLICIT Attributes OPTIONAL }  
  
 Version ::= INTEGER  
  
 PrivateKeyAlgorithmIdentifier ::= AlgorithmIdentifier  
  
 PrivateKey ::= OCTET STRING  
  
 Attributes ::= SET OF Attribute

**Since:** 1.2 **See Also:**[Key](http://docs.google.com/java/security/Key.html), [KeyFactory](http://docs.google.com/java/security/KeyFactory.html), [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html), [EncodedKeySpec](http://docs.google.com/java/security/spec/EncodedKeySpec.html), [X509EncodedKeySpec](http://docs.google.com/java/security/spec/X509EncodedKeySpec.html)

| **Constructor Summary** | |
| --- | --- |
| [**PKCS8EncodedKeySpec**](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html#PKCS8EncodedKeySpec(byte%5B%5D))(byte[] encodedKey)            Creates a new PKCS8EncodedKeySpec with the given encoded key. |

| **Method Summary** | |
| --- | --- |
| byte[] | [**getEncoded**](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html#getEncoded())()            Returns the key bytes, encoded according to the PKCS #8 standard. |
| [String](http://docs.google.com/java/lang/String.html) | [**getFormat**](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html#getFormat())()            Returns the name of the encoding format associated with this key specification. |

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

### PKCS8EncodedKeySpec

public **PKCS8EncodedKeySpec**(byte[] encodedKey)

Creates a new PKCS8EncodedKeySpec with the given encoded key.

**Parameters:**encodedKey - the key, which is assumed to be encoded according to the PKCS #8 standard. The contents of the array are copied to protect against subsequent modification. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if encodedKey is null.

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

### getEncoded

public byte[] **getEncoded**()

Returns the key bytes, encoded according to the PKCS #8 standard.

**Overrides:**[getEncoded](http://docs.google.com/java/security/spec/EncodedKeySpec.html#getEncoded()) in class [EncodedKeySpec](http://docs.google.com/java/security/spec/EncodedKeySpec.html) **Returns:**the PKCS #8 encoding of the key. Returns a new array each time this method is called.

### getFormat

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

Returns the name of the encoding format associated with this key specification.

**Specified by:**[getFormat](http://docs.google.com/java/security/spec/EncodedKeySpec.html#getFormat()) in class [EncodedKeySpec](http://docs.google.com/java/security/spec/EncodedKeySpec.html) **Returns:**the string "PKCS#8".

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PKCS8EncodedKeySpec.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/spec/MGF1ParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/PSSParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/PKCS8EncodedKeySpec.html)    [**NO FRAMES**](http://docs.google.com/PKCS8EncodedKeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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