| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KeySpec.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/InvalidParameterSpecException.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/MGF1ParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/KeySpec.html)    [**NO FRAMES**](http://docs.google.com/KeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | METHOD | DETAIL: FIELD | CONSTR | METHOD |

## **java.security.spec**

Interface KeySpec

**All Known Implementing Classes:** [DESedeKeySpec](http://docs.google.com/javax/crypto/spec/DESedeKeySpec.html), [DESKeySpec](http://docs.google.com/javax/crypto/spec/DESKeySpec.html), [DHPrivateKeySpec](http://docs.google.com/javax/crypto/spec/DHPrivateKeySpec.html), [DHPublicKeySpec](http://docs.google.com/javax/crypto/spec/DHPublicKeySpec.html), [DSAPrivateKeySpec](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html), [DSAPublicKeySpec](http://docs.google.com/java/security/spec/DSAPublicKeySpec.html), [ECPrivateKeySpec](http://docs.google.com/java/security/spec/ECPrivateKeySpec.html), [ECPublicKeySpec](http://docs.google.com/java/security/spec/ECPublicKeySpec.html), [EncodedKeySpec](http://docs.google.com/java/security/spec/EncodedKeySpec.html), [PBEKeySpec](http://docs.google.com/javax/crypto/spec/PBEKeySpec.html), [PKCS8EncodedKeySpec](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html), [RSAMultiPrimePrivateCrtKeySpec](http://docs.google.com/java/security/spec/RSAMultiPrimePrivateCrtKeySpec.html), [RSAPrivateCrtKeySpec](http://docs.google.com/java/security/spec/RSAPrivateCrtKeySpec.html), [RSAPrivateKeySpec](http://docs.google.com/java/security/spec/RSAPrivateKeySpec.html), [RSAPublicKeySpec](http://docs.google.com/java/security/spec/RSAPublicKeySpec.html), [SecretKeySpec](http://docs.google.com/javax/crypto/spec/SecretKeySpec.html), [X509EncodedKeySpec](http://docs.google.com/java/security/spec/X509EncodedKeySpec.html)

public interface **KeySpec**

A (transparent) specification of the key material that constitutes a cryptographic key.

If the key is stored on a hardware device, its specification may contain information that helps identify the key on the device.

A key may be specified in an algorithm-specific way, or in an algorithm-independent encoding format (such as ASN.1). For example, a DSA private key may be specified by its components x, p, q, and g (see [DSAPrivateKeySpec](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html)), or it may be specified using its DER encoding (see [PKCS8EncodedKeySpec](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html)).

This interface contains no methods or constants. Its only purpose is to group (and provide type safety for) all key specifications. All key specifications must implement this interface.

**Since:** 1.2 **See Also:**[Key](http://docs.google.com/java/security/Key.html), [KeyFactory](http://docs.google.com/java/security/KeyFactory.html), [EncodedKeySpec](http://docs.google.com/java/security/spec/EncodedKeySpec.html), [X509EncodedKeySpec](http://docs.google.com/java/security/spec/X509EncodedKeySpec.html), [PKCS8EncodedKeySpec](http://docs.google.com/java/security/spec/PKCS8EncodedKeySpec.html), [DSAPrivateKeySpec](http://docs.google.com/java/security/spec/DSAPrivateKeySpec.html), [DSAPublicKeySpec](http://docs.google.com/java/security/spec/DSAPublicKeySpec.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/KeySpec.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/InvalidParameterSpecException.html)   [**NEXT CLASS**](http://docs.google.com/java/security/spec/MGF1ParameterSpec.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/spec/KeySpec.html)    [**NO FRAMES**](http://docs.google.com/KeySpec.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | METHOD | DETAIL: FIELD | CONSTR | METHOD |

[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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