| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/crypto/SecretKey.html) | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/crypto//class-useSecretKey.html)    [**NO FRAMES**](http://docs.google.com/SecretKey.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Interface**

**javax.crypto.SecretKey**

| Packages that use [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| [**java.security**](#3znysh7) | Provides the classes and interfaces for the security framework. |
| [**javax.crypto**](#2et92p0) | Provides the classes and interfaces for cryptographic operations. |
| [**javax.crypto.interfaces**](#tyjcwt) | Provides interfaces for Diffie-Hellman keys as defined in RSA Laboratories' PKCS #3. |
| [**javax.crypto.spec**](#3dy6vkm) | Provides classes and interfaces for key specifications and algorithm parameter specifications. |
| [**javax.security.auth.kerberos**](#1t3h5sf) | This package contains utility classes related to the Kerberos network authentication protocol. |

| Uses of [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) in [java.security](http://docs.google.com/java/security/package-summary.html) | |
| --- | --- |

| Methods in [java.security](http://docs.google.com/java/security/package-summary.html) that return [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **KeyStore.SecretKeyEntry.**[**getSecretKey**](http://docs.google.com/java/security/KeyStore.SecretKeyEntry.html#getSecretKey())()            Gets the SecretKey from this entry. |

| Constructors in [java.security](http://docs.google.com/java/security/package-summary.html) with parameters of type [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| [**KeyStore.SecretKeyEntry**](http://docs.google.com/java/security/KeyStore.SecretKeyEntry.html#KeyStore.SecretKeyEntry(javax.crypto.SecretKey))([SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) secretKey)            Constructs a SecretKeyEntry with a SecretKey. |

| Uses of [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) | |
| --- | --- |

| Methods in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) that return [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| protected abstract  [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **KeyGeneratorSpi.**[**engineGenerateKey**](http://docs.google.com/javax/crypto/KeyGeneratorSpi.html#engineGenerateKey())()            Generates a secret key. |
| protected abstract  [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **SecretKeyFactorySpi.**[**engineGenerateSecret**](http://docs.google.com/javax/crypto/SecretKeyFactorySpi.html#engineGenerateSecret(java.security.spec.KeySpec))([KeySpec](http://docs.google.com/java/security/spec/KeySpec.html) keySpec)            Generates a SecretKey object from the provided key specification (key material). |
| protected abstract  [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **KeyAgreementSpi.**[**engineGenerateSecret**](http://docs.google.com/javax/crypto/KeyAgreementSpi.html#engineGenerateSecret(java.lang.String))([String](http://docs.google.com/java/lang/String.html) algorithm)            Creates the shared secret and returns it as a secret key object of the requested algorithm type. |
| protected abstract  [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **SecretKeyFactorySpi.**[**engineTranslateKey**](http://docs.google.com/javax/crypto/SecretKeyFactorySpi.html#engineTranslateKey(javax.crypto.SecretKey))([SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) key)            Translates a key object, whose provider may be unknown or potentially untrusted, into a corresponding key object of this secret-key factory. |
| [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **KeyGenerator.**[**generateKey**](http://docs.google.com/javax/crypto/KeyGenerator.html#generateKey())()            Generates a secret key. |
| [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **SecretKeyFactory.**[**generateSecret**](http://docs.google.com/javax/crypto/SecretKeyFactory.html#generateSecret(java.security.spec.KeySpec))([KeySpec](http://docs.google.com/java/security/spec/KeySpec.html) keySpec)            Generates a SecretKey object from the provided key specification (key material). |
| [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **KeyAgreement.**[**generateSecret**](http://docs.google.com/javax/crypto/KeyAgreement.html#generateSecret(java.lang.String))([String](http://docs.google.com/java/lang/String.html) algorithm)            Creates the shared secret and returns it as a SecretKey object of the specified algorithm. |
| [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **SecretKeyFactory.**[**translateKey**](http://docs.google.com/javax/crypto/SecretKeyFactory.html#translateKey(javax.crypto.SecretKey))([SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) key)            Translates a key object, whose provider may be unknown or potentially untrusted, into a corresponding key object of this secret-key factory. |

| Methods in [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) with parameters of type [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| protected abstract  [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html) | **SecretKeyFactorySpi.**[**engineGetKeySpec**](http://docs.google.com/javax/crypto/SecretKeyFactorySpi.html#engineGetKeySpec(javax.crypto.SecretKey,%20java.lang.Class))([SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) key, [Class](http://docs.google.com/java/lang/Class.html) keySpec)            Returns a specification (key material) of the given key object in the requested format. |
| protected abstract  [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **SecretKeyFactorySpi.**[**engineTranslateKey**](http://docs.google.com/javax/crypto/SecretKeyFactorySpi.html#engineTranslateKey(javax.crypto.SecretKey))([SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) key)            Translates a key object, whose provider may be unknown or potentially untrusted, into a corresponding key object of this secret-key factory. |
| [KeySpec](http://docs.google.com/java/security/spec/KeySpec.html) | **SecretKeyFactory.**[**getKeySpec**](http://docs.google.com/javax/crypto/SecretKeyFactory.html#getKeySpec(javax.crypto.SecretKey,%20java.lang.Class))([SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) key, [Class](http://docs.google.com/java/lang/Class.html) keySpec)            Returns a specification (key material) of the given key object in the requested format. |
| [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **SecretKeyFactory.**[**translateKey**](http://docs.google.com/javax/crypto/SecretKeyFactory.html#translateKey(javax.crypto.SecretKey))([SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) key)            Translates a key object, whose provider may be unknown or potentially untrusted, into a corresponding key object of this secret-key factory. |

| Uses of [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) in [javax.crypto.interfaces](http://docs.google.com/javax/crypto/interfaces/package-summary.html) | |
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| Subinterfaces of [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) in [javax.crypto.interfaces](http://docs.google.com/javax/crypto/interfaces/package-summary.html) | |
| --- | --- |
| interface | [**PBEKey**](http://docs.google.com/javax/crypto/interfaces/PBEKey.html)            The interface to a PBE key. |

| Uses of [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) in [javax.crypto.spec](http://docs.google.com/javax/crypto/spec/package-summary.html) | |
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| Classes in [javax.crypto.spec](http://docs.google.com/javax/crypto/spec/package-summary.html) that implement [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| class | [**SecretKeySpec**](http://docs.google.com/javax/crypto/spec/SecretKeySpec.html)            This class specifies a secret key in a provider-independent fashion. |

| Uses of [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) in [javax.security.auth.kerberos](http://docs.google.com/javax/security/auth/kerberos/package-summary.html) | |
| --- | --- |

| Classes in [javax.security.auth.kerberos](http://docs.google.com/javax/security/auth/kerberos/package-summary.html) that implement [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| class | [**KerberosKey**](http://docs.google.com/javax/security/auth/kerberos/KerberosKey.html)            This class encapsulates a long term secret key for a Kerberos principal. |

| Methods in [javax.security.auth.kerberos](http://docs.google.com/javax/security/auth/kerberos/package-summary.html) that return [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | |
| --- | --- |
| [SecretKey](http://docs.google.com/javax/crypto/SecretKey.html) | **KerberosTicket.**[**getSessionKey**](http://docs.google.com/javax/security/auth/kerberos/KerberosTicket.html#getSessionKey())()            Returns the session key associated with this ticket. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/javax/crypto/SecretKey.html) | **Use** | [**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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| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?javax/crypto//class-useSecretKey.html)    [**NO FRAMES**](http://docs.google.com/SecretKey.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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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