| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | Use | **Tree** | [**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**](http://docs.google.com/javax/annotation/processing/package-tree.html)   [**NEXT**](http://docs.google.com/javax/crypto/interfaces/package-tree.html) | [**FRAMES**](http://docs.google.com/index.html?javax/crypto/package-tree.html)    [**NO FRAMES**](http://docs.google.com/package-tree.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

Hierarchy For Package javax.crypto

**Package Hierarchies:**[All Packages](http://docs.google.com/overview-tree.html)

## Class Hierarchy

* java.lang.[**Object**](http://docs.google.com/java/lang/Object.html)
  + javax.crypto.[**Cipher**](http://docs.google.com/javax/crypto/Cipher.html)
    - javax.crypto.[**NullCipher**](http://docs.google.com/javax/crypto/NullCipher.html)
  + javax.crypto.[**CipherSpi**](http://docs.google.com/javax/crypto/CipherSpi.html)
  + javax.crypto.[**EncryptedPrivateKeyInfo**](http://docs.google.com/javax/crypto/EncryptedPrivateKeyInfo.html)
  + javax.crypto.[**ExemptionMechanism**](http://docs.google.com/javax/crypto/ExemptionMechanism.html)
  + javax.crypto.[**ExemptionMechanismSpi**](http://docs.google.com/javax/crypto/ExemptionMechanismSpi.html)
  + java.io.[**InputStream**](http://docs.google.com/java/io/InputStream.html) (implements java.io.[Closeable](http://docs.google.com/java/io/Closeable.html))
    - java.io.[**FilterInputStream**](http://docs.google.com/java/io/FilterInputStream.html)
      * javax.crypto.[**CipherInputStream**](http://docs.google.com/javax/crypto/CipherInputStream.html)
  + javax.crypto.[**KeyAgreement**](http://docs.google.com/javax/crypto/KeyAgreement.html)
  + javax.crypto.[**KeyAgreementSpi**](http://docs.google.com/javax/crypto/KeyAgreementSpi.html)
  + javax.crypto.[**KeyGenerator**](http://docs.google.com/javax/crypto/KeyGenerator.html)
  + javax.crypto.[**KeyGeneratorSpi**](http://docs.google.com/javax/crypto/KeyGeneratorSpi.html)
  + javax.crypto.[**Mac**](http://docs.google.com/javax/crypto/Mac.html) (implements java.lang.[Cloneable](http://docs.google.com/java/lang/Cloneable.html))
  + javax.crypto.[**MacSpi**](http://docs.google.com/javax/crypto/MacSpi.html)
  + java.io.[**OutputStream**](http://docs.google.com/java/io/OutputStream.html) (implements java.io.[Closeable](http://docs.google.com/java/io/Closeable.html), java.io.[Flushable](http://docs.google.com/java/io/Flushable.html))
    - java.io.[**FilterOutputStream**](http://docs.google.com/java/io/FilterOutputStream.html)
      * javax.crypto.[**CipherOutputStream**](http://docs.google.com/javax/crypto/CipherOutputStream.html)
  + javax.crypto.[**SealedObject**](http://docs.google.com/javax/crypto/SealedObject.html) (implements java.io.[Serializable](http://docs.google.com/java/io/Serializable.html))
  + javax.crypto.[**SecretKeyFactory**](http://docs.google.com/javax/crypto/SecretKeyFactory.html)
  + javax.crypto.[**SecretKeyFactorySpi**](http://docs.google.com/javax/crypto/SecretKeyFactorySpi.html)
  + java.lang.[**Throwable**](http://docs.google.com/java/lang/Throwable.html) (implements java.io.[Serializable](http://docs.google.com/java/io/Serializable.html))
    - java.lang.[**Exception**](http://docs.google.com/java/lang/Exception.html)
      * java.security.[**GeneralSecurityException**](http://docs.google.com/java/security/GeneralSecurityException.html)
        + javax.crypto.[**BadPaddingException**](http://docs.google.com/javax/crypto/BadPaddingException.html)
        + javax.crypto.[**ExemptionMechanismException**](http://docs.google.com/javax/crypto/ExemptionMechanismException.html)
        + javax.crypto.[**IllegalBlockSizeException**](http://docs.google.com/javax/crypto/IllegalBlockSizeException.html)
        + javax.crypto.[**NoSuchPaddingException**](http://docs.google.com/javax/crypto/NoSuchPaddingException.html)
        + javax.crypto.[**ShortBufferException**](http://docs.google.com/javax/crypto/ShortBufferException.html)

## Interface Hierarchy

* java.io.[**Serializable**](http://docs.google.com/java/io/Serializable.html)
  + java.security.[**Key**](http://docs.google.com/java/security/Key.html)
    - javax.crypto.[**SecretKey**](http://docs.google.com/javax/crypto/SecretKey.html)

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