| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/security/SignatureException.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?java/security//class-useSignatureException.html)    [**NO FRAMES**](http://docs.google.com/SignatureException.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Class**

**java.security.SignatureException**

| Packages that use [SignatureException](http://docs.google.com/java/security/SignatureException.html) | |
| --- | --- |
| [**java.security**](#3znysh7) | Provides the classes and interfaces for the security framework. |
| [**java.security.cert**](#2et92p0) | Provides classes and interfaces for parsing and managing certificates, certificate revocation lists (CRLs), and certification paths. |
| [**javax.security.cert**](#tyjcwt) | Provides classes for public key certificates. |

| Uses of [SignatureException](http://docs.google.com/java/security/SignatureException.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 throw [SignatureException](http://docs.google.com/java/security/SignatureException.html) | |
| --- | --- |
| protected abstract  byte[] | **SignatureSpi.**[**engineSign**](http://docs.google.com/java/security/SignatureSpi.html#engineSign())()            Returns the signature bytes of all the data updated so far. |
| protected  int | **SignatureSpi.**[**engineSign**](http://docs.google.com/java/security/SignatureSpi.html#engineSign(byte%5B%5D,%20int,%20int))(byte[] outbuf, int offset, int len)            Finishes this signature operation and stores the resulting signature bytes in the provided buffer outbuf, starting at offset. |
| protected abstract  void | **SignatureSpi.**[**engineUpdate**](http://docs.google.com/java/security/SignatureSpi.html#engineUpdate(byte))(byte b)            Updates the data to be signed or verified using the specified byte. |
| protected abstract  void | **SignatureSpi.**[**engineUpdate**](http://docs.google.com/java/security/SignatureSpi.html#engineUpdate(byte%5B%5D,%20int,%20int))(byte[] b, int off, int len)            Updates the data to be signed or verified, using the specified array of bytes, starting at the specified offset. |
| protected abstract  boolean | **SignatureSpi.**[**engineVerify**](http://docs.google.com/java/security/SignatureSpi.html#engineVerify(byte%5B%5D))(byte[] sigBytes)            Verifies the passed-in signature. |
| protected  boolean | **SignatureSpi.**[**engineVerify**](http://docs.google.com/java/security/SignatureSpi.html#engineVerify(byte%5B%5D,%20int,%20int))(byte[] sigBytes, int offset, int length)            Verifies the passed-in signature in the specified array of bytes, starting at the specified offset. |
| byte[] | **Signature.**[**sign**](http://docs.google.com/java/security/Signature.html#sign())()            Returns the signature bytes of all the data updated. |
| int | **Signature.**[**sign**](http://docs.google.com/java/security/Signature.html#sign(byte%5B%5D,%20int,%20int))(byte[] outbuf, int offset, int len)            Finishes the signature operation and stores the resulting signature bytes in the provided buffer outbuf, starting at offset. |
| void | **Signature.**[**update**](http://docs.google.com/java/security/Signature.html#update(byte))(byte b)            Updates the data to be signed or verified by a byte. |
| void | **Signature.**[**update**](http://docs.google.com/java/security/Signature.html#update(byte%5B%5D))(byte[] data)            Updates the data to be signed or verified, using the specified array of bytes. |
| void | **Signature.**[**update**](http://docs.google.com/java/security/Signature.html#update(byte%5B%5D,%20int,%20int))(byte[] data, int off, int len)            Updates the data to be signed or verified, using the specified array of bytes, starting at the specified offset. |
| void | **Signature.**[**update**](http://docs.google.com/java/security/Signature.html#update(java.nio.ByteBuffer))([ByteBuffer](http://docs.google.com/java/nio/ByteBuffer.html) data)            Updates the data to be signed or verified using the specified ByteBuffer. |
| boolean | **Signature.**[**verify**](http://docs.google.com/java/security/Signature.html#verify(byte%5B%5D))(byte[] signature)            Verifies the passed-in signature. |
| boolean | **Signature.**[**verify**](http://docs.google.com/java/security/Signature.html#verify(byte%5B%5D,%20int,%20int))(byte[] signature, int offset, int length)            Verifies the passed-in signature in the specified array of bytes, starting at the specified offset. |
| boolean | **SignedObject.**[**verify**](http://docs.google.com/java/security/SignedObject.html#verify(java.security.PublicKey,%20java.security.Signature))([PublicKey](http://docs.google.com/java/security/PublicKey.html) verificationKey, [Signature](http://docs.google.com/java/security/Signature.html) verificationEngine)            Verifies that the signature in this SignedObject is the valid signature for the object stored inside, with the given verification key, using the designated verification engine. |

| Constructors in [java.security](http://docs.google.com/java/security/package-summary.html) that throw [SignatureException](http://docs.google.com/java/security/SignatureException.html) | |
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| [**SignedObject**](http://docs.google.com/java/security/SignedObject.html#SignedObject(java.io.Serializable,%20java.security.PrivateKey,%20java.security.Signature))([Serializable](http://docs.google.com/java/io/Serializable.html) object, [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) signingKey, [Signature](http://docs.google.com/java/security/Signature.html) signingEngine)            Constructs a SignedObject from any Serializable object. |

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

| Methods in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) that throw [SignatureException](http://docs.google.com/java/security/SignatureException.html) | |
| --- | --- |
| abstract  void | **X509CRL.**[**verify**](http://docs.google.com/java/security/cert/X509CRL.html#verify(java.security.PublicKey))([PublicKey](http://docs.google.com/java/security/PublicKey.html) key)            Verifies that this CRL was signed using the private key that corresponds to the given public key. |
| abstract  void | **Certificate.**[**verify**](http://docs.google.com/java/security/cert/Certificate.html#verify(java.security.PublicKey))([PublicKey](http://docs.google.com/java/security/PublicKey.html) key)            Verifies that this certificate was signed using the private key that corresponds to the specified public key. |
| abstract  void | **X509CRL.**[**verify**](http://docs.google.com/java/security/cert/X509CRL.html#verify(java.security.PublicKey,%20java.lang.String))([PublicKey](http://docs.google.com/java/security/PublicKey.html) key, [String](http://docs.google.com/java/lang/String.html) sigProvider)            Verifies that this CRL was signed using the private key that corresponds to the given public key. |
| abstract  void | **Certificate.**[**verify**](http://docs.google.com/java/security/cert/Certificate.html#verify(java.security.PublicKey,%20java.lang.String))([PublicKey](http://docs.google.com/java/security/PublicKey.html) key, [String](http://docs.google.com/java/lang/String.html) sigProvider)            Verifies that this certificate was signed using the private key that corresponds to the specified public key. |

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

| Methods in [javax.security.cert](http://docs.google.com/javax/security/cert/package-summary.html) that throw [SignatureException](http://docs.google.com/java/security/SignatureException.html) | |
| --- | --- |
| abstract  void | **Certificate.**[**verify**](http://docs.google.com/javax/security/cert/Certificate.html#verify(java.security.PublicKey))([PublicKey](http://docs.google.com/java/security/PublicKey.html) key)            Verifies that this certificate was signed using the private key that corresponds to the specified public key. |
| abstract  void | **Certificate.**[**verify**](http://docs.google.com/javax/security/cert/Certificate.html#verify(java.security.PublicKey,%20java.lang.String))([PublicKey](http://docs.google.com/java/security/PublicKey.html) key, [String](http://docs.google.com/java/lang/String.html) sigProvider)            Verifies that this certificate was signed using the private key that corresponds to the specified public key. |

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