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

**Uses of Class**

**java.security.cert.Certificate**

| Packages that use [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| [**java.net**](#3znysh7) | Provides the classes for implementing networking applications. |
| [**java.security**](#2et92p0) | Provides the classes and interfaces for the security framework. |
| [**java.security.cert**](#tyjcwt) | Provides classes and interfaces for parsing and managing certificates, certificate revocation lists (CRLs), and certification paths. |
| [**java.util.jar**](#3dy6vkm) | Provides classes for reading and writing the JAR (Java ARchive) file format, which is based on the standard ZIP file format with an optional manifest file. |
| [**javax.crypto**](#1t3h5sf) | Provides the classes and interfaces for cryptographic operations. |
| [**javax.net.ssl**](#4d34og8) | Provides classes for the secure socket package. |

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

| Methods in [java.net](http://docs.google.com/java/net/package-summary.html) that return [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **JarURLConnection.**[**getCertificates**](http://docs.google.com/java/net/JarURLConnection.html#getCertificates())()            Return the Certificate object for this connection if the URL for it points to a JAR file entry, null otherwise. |

| Methods in [java.net](http://docs.google.com/java/net/package-summary.html) that return types with arguments of type [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| abstract  [List](http://docs.google.com/java/util/List.html)<[Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | **SecureCacheResponse.**[**getLocalCertificateChain**](http://docs.google.com/java/net/SecureCacheResponse.html#getLocalCertificateChain())()            Returns the certificate chain that were sent to the server during handshaking of the original connection that retrieved the network resource. |
| abstract  [List](http://docs.google.com/java/util/List.html)<[Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | **SecureCacheResponse.**[**getServerCertificateChain**](http://docs.google.com/java/net/SecureCacheResponse.html#getServerCertificateChain())()            Returns the server's certificate chain, which was established as part of defining the session in the original connection that retrieved the network resource, from cache. |

| Uses of [Certificate](http://docs.google.com/java/security/cert/Certificate.html) in [java.security](http://docs.google.com/java/security/package-summary.html) | |
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| Methods in [java.security](http://docs.google.com/java/security/package-summary.html) that return [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| abstract  [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | **KeyStoreSpi.**[**engineGetCertificate**](http://docs.google.com/java/security/KeyStoreSpi.html#engineGetCertificate(java.lang.String))([String](http://docs.google.com/java/lang/String.html) alias)            Returns the certificate associated with the given alias. |
| abstract  [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **KeyStoreSpi.**[**engineGetCertificateChain**](http://docs.google.com/java/security/KeyStoreSpi.html#engineGetCertificateChain(java.lang.String))([String](http://docs.google.com/java/lang/String.html) alias)            Returns the certificate chain associated with the given alias. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | **KeyStore.PrivateKeyEntry.**[**getCertificate**](http://docs.google.com/java/security/KeyStore.PrivateKeyEntry.html#getCertificate())()            Gets the end entity Certificate from the certificate chain in this entry. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | **KeyStore.**[**getCertificate**](http://docs.google.com/java/security/KeyStore.html#getCertificate(java.lang.String))([String](http://docs.google.com/java/lang/String.html) alias)            Returns the certificate associated with the given alias. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **KeyStore.PrivateKeyEntry.**[**getCertificateChain**](http://docs.google.com/java/security/KeyStore.PrivateKeyEntry.html#getCertificateChain())()            Gets the Certificate chain from this entry. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **KeyStore.**[**getCertificateChain**](http://docs.google.com/java/security/KeyStore.html#getCertificateChain(java.lang.String))([String](http://docs.google.com/java/lang/String.html) alias)            Returns the certificate chain associated with the given alias. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **CodeSource.**[**getCertificates**](http://docs.google.com/java/security/CodeSource.html#getCertificates())()            Returns the certificates associated with this CodeSource. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | **KeyStore.TrustedCertificateEntry.**[**getTrustedCertificate**](http://docs.google.com/java/security/KeyStore.TrustedCertificateEntry.html#getTrustedCertificate())()            Gets the trusted Certficate from this entry. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **UnresolvedPermission.**[**getUnresolvedCerts**](http://docs.google.com/java/security/UnresolvedPermission.html#getUnresolvedCerts())()            Get the signer certificates (without any supporting chain) for the underlying permission that has not been resolved. |

| Methods in [java.security](http://docs.google.com/java/security/package-summary.html) with parameters of type [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| abstract  [String](http://docs.google.com/java/lang/String.html) | **KeyStoreSpi.**[**engineGetCertificateAlias**](http://docs.google.com/java/security/KeyStoreSpi.html#engineGetCertificateAlias(java.security.cert.Certificate))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert)            Returns the (alias) name of the first keystore entry whose certificate matches the given certificate. |
| abstract  void | **KeyStoreSpi.**[**engineSetCertificateEntry**](http://docs.google.com/java/security/KeyStoreSpi.html#engineSetCertificateEntry(java.lang.String,%20java.security.cert.Certificate))([String](http://docs.google.com/java/lang/String.html) alias, [Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert)            Assigns the given certificate to the given alias. |
| abstract  void | **KeyStoreSpi.**[**engineSetKeyEntry**](http://docs.google.com/java/security/KeyStoreSpi.html#engineSetKeyEntry(java.lang.String,%20byte%5B%5D,%20java.security.cert.Certificate%5B%5D))([String](http://docs.google.com/java/lang/String.html) alias, byte[] key, [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] chain)            Assigns the given key (that has already been protected) to the given alias. |
| abstract  void | **KeyStoreSpi.**[**engineSetKeyEntry**](http://docs.google.com/java/security/KeyStoreSpi.html#engineSetKeyEntry(java.lang.String,%20java.security.Key,%20char%5B%5D,%20java.security.cert.Certificate%5B%5D))([String](http://docs.google.com/java/lang/String.html) alias, [Key](http://docs.google.com/java/security/Key.html) key, char[] password, [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] chain)            Assigns the given key to the given alias, protecting it with the given password. |
| [String](http://docs.google.com/java/lang/String.html) | **KeyStore.**[**getCertificateAlias**](http://docs.google.com/java/security/KeyStore.html#getCertificateAlias(java.security.cert.Certificate))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert)            Returns the (alias) name of the first keystore entry whose certificate matches the given certificate. |
| void | **Signature.**[**initVerify**](http://docs.google.com/java/security/Signature.html#initVerify(java.security.cert.Certificate))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) certificate)            Initializes this object for verification, using the public key from the given certificate. |
| void | **KeyStore.**[**setCertificateEntry**](http://docs.google.com/java/security/KeyStore.html#setCertificateEntry(java.lang.String,%20java.security.cert.Certificate))([String](http://docs.google.com/java/lang/String.html) alias, [Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert)            Assigns the given trusted certificate to the given alias. |
| void | **KeyStore.**[**setKeyEntry**](http://docs.google.com/java/security/KeyStore.html#setKeyEntry(java.lang.String,%20byte%5B%5D,%20java.security.cert.Certificate%5B%5D))([String](http://docs.google.com/java/lang/String.html) alias, byte[] key, [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] chain)            Assigns the given key (that has already been protected) to the given alias. |
| void | **KeyStore.**[**setKeyEntry**](http://docs.google.com/java/security/KeyStore.html#setKeyEntry(java.lang.String,%20java.security.Key,%20char%5B%5D,%20java.security.cert.Certificate%5B%5D))([String](http://docs.google.com/java/lang/String.html) alias, [Key](http://docs.google.com/java/security/Key.html) key, char[] password, [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] chain)            Assigns the given key to the given alias, protecting it with the given password. |

| Constructors in [java.security](http://docs.google.com/java/security/package-summary.html) with parameters of type [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| [**CodeSource**](http://docs.google.com/java/security/CodeSource.html#CodeSource(java.net.URL,%20java.security.cert.Certificate%5B%5D))([URL](http://docs.google.com/java/net/URL.html) url, [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] certs)            Constructs a CodeSource and associates it with the specified location and set of certificates. |
| [**KeyStore.PrivateKeyEntry**](http://docs.google.com/java/security/KeyStore.PrivateKeyEntry.html#KeyStore.PrivateKeyEntry(java.security.PrivateKey,%20java.security.cert.Certificate%5B%5D))([PrivateKey](http://docs.google.com/java/security/PrivateKey.html) privateKey, [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] chain)            Constructs a PrivateKeyEntry with a PrivateKey and corresponding certificate chain. |
| [**KeyStore.TrustedCertificateEntry**](http://docs.google.com/java/security/KeyStore.TrustedCertificateEntry.html#KeyStore.TrustedCertificateEntry(java.security.cert.Certificate))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) trustedCert)            Constructs a TrustedCertificateEntry with a trusted Certificate. |
| [**UnresolvedPermission**](http://docs.google.com/java/security/UnresolvedPermission.html#UnresolvedPermission(java.lang.String,%20java.lang.String,%20java.lang.String,%20java.security.cert.Certificate%5B%5D))([String](http://docs.google.com/java/lang/String.html) type, [String](http://docs.google.com/java/lang/String.html) name, [String](http://docs.google.com/java/lang/String.html) actions, [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] certs)            Creates a new UnresolvedPermission containing the permission information needed later to actually create a Permission of the specified class, when the permission is resolved. |

| Uses of [Certificate](http://docs.google.com/java/security/cert/Certificate.html) in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) | |
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| Subclasses of [Certificate](http://docs.google.com/java/security/cert/Certificate.html) in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) | |
| --- | --- |
| class | [**X509Certificate**](http://docs.google.com/java/security/cert/X509Certificate.html)             Abstract class for X.509 certificates. |

| Methods in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) that return [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| abstract  [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | **CertificateFactorySpi.**[**engineGenerateCertificate**](http://docs.google.com/java/security/cert/CertificateFactorySpi.html#engineGenerateCertificate(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) inStream)            Generates a certificate object and initializes it with the data read from the input stream inStream. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | **CertificateFactory.**[**generateCertificate**](http://docs.google.com/java/security/cert/CertificateFactory.html#generateCertificate(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) inStream)            Generates a certificate object and initializes it with the data read from the input stream inStream. |

| Methods in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) that return types with arguments of type [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| abstract  [Collection](http://docs.google.com/java/util/Collection.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | **CertificateFactorySpi.**[**engineGenerateCertificates**](http://docs.google.com/java/security/cert/CertificateFactorySpi.html#engineGenerateCertificates(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) inStream)            Returns a (possibly empty) collection view of the certificates read from the given input stream inStream. |
| abstract  [Collection](http://docs.google.com/java/util/Collection.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | **CertStoreSpi.**[**engineGetCertificates**](http://docs.google.com/java/security/cert/CertStoreSpi.html#engineGetCertificates(java.security.cert.CertSelector))([CertSelector](http://docs.google.com/java/security/cert/CertSelector.html) selector)            Returns a Collection of Certificates that match the specified selector. |
| [Collection](http://docs.google.com/java/util/Collection.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | **CertificateFactory.**[**generateCertificates**](http://docs.google.com/java/security/cert/CertificateFactory.html#generateCertificates(java.io.InputStream))([InputStream](http://docs.google.com/java/io/InputStream.html) inStream)            Returns a (possibly empty) collection view of the certificates read from the given input stream inStream. |
| abstract  [List](http://docs.google.com/java/util/List.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | **CertPath.**[**getCertificates**](http://docs.google.com/java/security/cert/CertPath.html#getCertificates())()            Returns the list of certificates in this certification path. |
| [Collection](http://docs.google.com/java/util/Collection.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | **CertStore.**[**getCertificates**](http://docs.google.com/java/security/cert/CertStore.html#getCertificates(java.security.cert.CertSelector))([CertSelector](http://docs.google.com/java/security/cert/CertSelector.html) selector)            Returns a Collection of Certificates that match the specified selector. |

| Methods in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) with parameters of type [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| abstract  void | **PKIXCertPathChecker.**[**check**](http://docs.google.com/java/security/cert/PKIXCertPathChecker.html#check(java.security.cert.Certificate,%20java.util.Collection))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert, [Collection](http://docs.google.com/java/util/Collection.html)<[String](http://docs.google.com/java/lang/String.html)> unresolvedCritExts)            Performs the check(s) on the specified certificate using its internal state and removes any critical extensions that it processes from the specified collection of OID strings that represent the unresolved critical extensions. |
| abstract  boolean | **CRL.**[**isRevoked**](http://docs.google.com/java/security/cert/CRL.html#isRevoked(java.security.cert.Certificate))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert)            Checks whether the given certificate is on this CRL. |
| boolean | **CertSelector.**[**match**](http://docs.google.com/java/security/cert/CertSelector.html#match(java.security.cert.Certificate))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert)            Decides whether a Certificate should be selected. |
| boolean | **X509CertSelector.**[**match**](http://docs.google.com/java/security/cert/X509CertSelector.html#match(java.security.cert.Certificate))([Certificate](http://docs.google.com/java/security/cert/Certificate.html) cert)            Decides whether a Certificate should be selected. |

| Method parameters in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) with type arguments of type [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| [CertPath](http://docs.google.com/java/security/cert/CertPath.html) | **CertificateFactorySpi.**[**engineGenerateCertPath**](http://docs.google.com/java/security/cert/CertificateFactorySpi.html#engineGenerateCertPath(java.util.List))([List](http://docs.google.com/java/util/List.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> certificates)            Generates a CertPath object and initializes it with a List of Certificates. |
| [CertPath](http://docs.google.com/java/security/cert/CertPath.html) | **CertificateFactory.**[**generateCertPath**](http://docs.google.com/java/security/cert/CertificateFactory.html#generateCertPath(java.util.List))([List](http://docs.google.com/java/util/List.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> certificates)            Generates a CertPath object and initializes it with a List of Certificates. |

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

| Methods in [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) that return [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **JarEntry.**[**getCertificates**](http://docs.google.com/java/util/jar/JarEntry.html#getCertificates())()            Returns the Certificate objects for this entry, or null if none. |

| Uses of [Certificate](http://docs.google.com/java/security/cert/Certificate.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) with parameters of type [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| void | **Cipher.**[**init**](http://docs.google.com/javax/crypto/Cipher.html#init(int,%20java.security.cert.Certificate))(int opmode, [Certificate](http://docs.google.com/java/security/cert/Certificate.html) certificate)            Initializes this cipher with the public key from the given certificate. |
| void | **Cipher.**[**init**](http://docs.google.com/javax/crypto/Cipher.html#init(int,%20java.security.cert.Certificate,%20java.security.SecureRandom))(int opmode, [Certificate](http://docs.google.com/java/security/cert/Certificate.html) certificate, [SecureRandom](http://docs.google.com/java/security/SecureRandom.html) random)            Initializes this cipher with the public key from the given certificate and a source of randomness. |

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

| Methods in [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) that return [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | |
| --- | --- |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **HandshakeCompletedEvent.**[**getLocalCertificates**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getLocalCertificates())()            Returns the certificate(s) that were sent to the peer during handshaking. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **SSLSession.**[**getLocalCertificates**](http://docs.google.com/javax/net/ssl/SSLSession.html#getLocalCertificates())()            Returns the certificate(s) that were sent to the peer during handshaking. |
| abstract  [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **HttpsURLConnection.**[**getLocalCertificates**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getLocalCertificates())()            Returns the certificate(s) that were sent to the server during handshaking. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **HandshakeCompletedEvent.**[**getPeerCertificates**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerCertificates())()            Returns the identity of the peer which was established as part of defining the session. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **SSLSession.**[**getPeerCertificates**](http://docs.google.com/javax/net/ssl/SSLSession.html#getPeerCertificates())()            Returns the identity of the peer which was established as part of defining the session. |
| abstract  [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | **HttpsURLConnection.**[**getServerCertificates**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getServerCertificates())()            Returns the server's certificate chain which was established as part of defining the session. |

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | [**Class**](http://docs.google.com/java/security/cert/Certificate.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PREV   NEXT | [**FRAMES**](http://docs.google.com/index.html?java/security/cert//class-useCertificate.html)    [**NO FRAMES**](http://docs.google.com/Certificate.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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