| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | Class | **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/package-use.html)    [**NO FRAMES**](http://docs.google.com/package-use.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

**Uses of Package**

**java.security.cert**

| Packages that use [java.security.cert](http://docs.google.com/java/security/cert/package-summary.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. |
| [**javax.security.auth.x500**](#2s8eyo1) | This package contains the classes that should be used to store X500 Principal and X500 Private Crendentials in a *Subject*. |

| Classes in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) used by [java.net](http://docs.google.com/java/net/package-summary.html) | |
| --- | --- |
| [**Certificate**](http://docs.google.com/java/security/cert/class-use/Certificate.html#java.net)            Abstract class for managing a variety of identity certificates. |

| Classes in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) used by [java.security](http://docs.google.com/java/security/package-summary.html) | |
| --- | --- |
| [**Certificate**](http://docs.google.com/java/security/cert/class-use/Certificate.html#java.security)            Abstract class for managing a variety of identity certificates. |
| [**CertificateException**](http://docs.google.com/java/security/cert/class-use/CertificateException.html#java.security)            This exception indicates one of a variety of certificate problems. |
| [**CertPath**](http://docs.google.com/java/security/cert/class-use/CertPath.html#java.security)            An immutable sequence of certificates (a certification path). |

| Classes in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) used by [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) | |
| --- | --- |
| [**Certificate**](http://docs.google.com/java/security/cert/class-use/Certificate.html#java.security.cert)            Abstract class for managing a variety of identity certificates. |
| [**CertificateEncodingException**](http://docs.google.com/java/security/cert/class-use/CertificateEncodingException.html#java.security.cert)            Certificate Encoding Exception. |
| [**CertificateException**](http://docs.google.com/java/security/cert/class-use/CertificateException.html#java.security.cert)            This exception indicates one of a variety of certificate problems. |
| [**CertificateExpiredException**](http://docs.google.com/java/security/cert/class-use/CertificateExpiredException.html#java.security.cert)            Certificate Expired Exception. |
| [**CertificateFactory**](http://docs.google.com/java/security/cert/class-use/CertificateFactory.html#java.security.cert)            This class defines the functionality of a certificate factory, which is used to generate certificate, certification path (CertPath) and certificate revocation list (CRL) objects from their encodings. |
| [**CertificateFactorySpi**](http://docs.google.com/java/security/cert/class-use/CertificateFactorySpi.html#java.security.cert)            This class defines the *Service Provider Interface* (**SPI**) for the CertificateFactory class. |
| [**CertificateNotYetValidException**](http://docs.google.com/java/security/cert/class-use/CertificateNotYetValidException.html#java.security.cert)            Certificate is not yet valid exception. |
| [**CertificateParsingException**](http://docs.google.com/java/security/cert/class-use/CertificateParsingException.html#java.security.cert)            Certificate Parsing Exception. |
| [**CertPath**](http://docs.google.com/java/security/cert/class-use/CertPath.html#java.security.cert)            An immutable sequence of certificates (a certification path). |
| [**CertPathBuilder**](http://docs.google.com/java/security/cert/class-use/CertPathBuilder.html#java.security.cert)            A class for building certification paths (also known as certificate chains). |
| [**CertPathBuilderException**](http://docs.google.com/java/security/cert/class-use/CertPathBuilderException.html#java.security.cert)            An exception indicating one of a variety of problems encountered when building a certification path with a CertPathBuilder. |
| [**CertPathBuilderResult**](http://docs.google.com/java/security/cert/class-use/CertPathBuilderResult.html#java.security.cert)            A specification of the result of a certification path builder algorithm. |
| [**CertPathBuilderSpi**](http://docs.google.com/java/security/cert/class-use/CertPathBuilderSpi.html#java.security.cert)            The *Service Provider Interface* (**SPI**) for the [CertPathBuilder](http://docs.google.com/java/security/cert/CertPathBuilder.html) class. |
| [**CertPathParameters**](http://docs.google.com/java/security/cert/class-use/CertPathParameters.html#java.security.cert)            A specification of certification path algorithm parameters. |
| [**CertPathValidator**](http://docs.google.com/java/security/cert/class-use/CertPathValidator.html#java.security.cert)            A class for validating certification paths (also known as certificate chains). |
| [**CertPathValidatorException**](http://docs.google.com/java/security/cert/class-use/CertPathValidatorException.html#java.security.cert)            An exception indicating one of a variety of problems encountered when validating a certification path. |
| [**CertPathValidatorResult**](http://docs.google.com/java/security/cert/class-use/CertPathValidatorResult.html#java.security.cert)            A specification of the result of a certification path validator algorithm. |
| [**CertPathValidatorSpi**](http://docs.google.com/java/security/cert/class-use/CertPathValidatorSpi.html#java.security.cert)            The *Service Provider Interface* (**SPI**) for the [CertPathValidator](http://docs.google.com/java/security/cert/CertPathValidator.html) class. |
| [**CertSelector**](http://docs.google.com/java/security/cert/class-use/CertSelector.html#java.security.cert)            A selector that defines a set of criteria for selecting Certificates. |
| [**CertStore**](http://docs.google.com/java/security/cert/class-use/CertStore.html#java.security.cert)            A class for retrieving Certificates and CRLs from a repository. |
| [**CertStoreException**](http://docs.google.com/java/security/cert/class-use/CertStoreException.html#java.security.cert)            An exception indicating one of a variety of problems retrieving certificates and CRLs from a CertStore. |
| [**CertStoreParameters**](http://docs.google.com/java/security/cert/class-use/CertStoreParameters.html#java.security.cert)            A specification of CertStore parameters. |
| [**CertStoreSpi**](http://docs.google.com/java/security/cert/class-use/CertStoreSpi.html#java.security.cert)            The *Service Provider Interface* (**SPI**) for the [CertStore](http://docs.google.com/java/security/cert/CertStore.html) class. |
| [**CRL**](http://docs.google.com/java/security/cert/class-use/CRL.html#java.security.cert)            This class is an abstraction of certificate revocation lists (CRLs) that have different formats but important common uses. |
| [**CRLException**](http://docs.google.com/java/security/cert/class-use/CRLException.html#java.security.cert)            CRL (Certificate Revocation List) Exception. |
| [**CRLSelector**](http://docs.google.com/java/security/cert/class-use/CRLSelector.html#java.security.cert)            A selector that defines a set of criteria for selecting CRLs. |
| [**PKIXCertPathChecker**](http://docs.google.com/java/security/cert/class-use/PKIXCertPathChecker.html#java.security.cert)            An abstract class that performs one or more checks on an X509Certificate. |
| [**PKIXCertPathValidatorResult**](http://docs.google.com/java/security/cert/class-use/PKIXCertPathValidatorResult.html#java.security.cert)            This class represents the successful result of the PKIX certification path validation algorithm. |
| [**PKIXParameters**](http://docs.google.com/java/security/cert/class-use/PKIXParameters.html#java.security.cert)            Parameters used as input for the PKIX CertPathValidator algorithm. |
| [**PolicyNode**](http://docs.google.com/java/security/cert/class-use/PolicyNode.html#java.security.cert)            An immutable valid policy tree node as defined by the PKIX certification path validation algorithm. |
| [**PolicyQualifierInfo**](http://docs.google.com/java/security/cert/class-use/PolicyQualifierInfo.html#java.security.cert)            An immutable policy qualifier represented by the ASN.1 PolicyQualifierInfo structure. |
| [**TrustAnchor**](http://docs.google.com/java/security/cert/class-use/TrustAnchor.html#java.security.cert)            A trust anchor or most-trusted Certification Authority (CA). |
| [**X509Certificate**](http://docs.google.com/java/security/cert/class-use/X509Certificate.html#java.security.cert)             Abstract class for X.509 certificates. |
| [**X509CRLEntry**](http://docs.google.com/java/security/cert/class-use/X509CRLEntry.html#java.security.cert)            Abstract class for a revoked certificate in a CRL (Certificate Revocation List). |
| [**X509Extension**](http://docs.google.com/java/security/cert/class-use/X509Extension.html#java.security.cert)            Interface for an X.509 extension. |

| Classes in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) used by [java.util.jar](http://docs.google.com/java/util/jar/package-summary.html) | |
| --- | --- |
| [**Certificate**](http://docs.google.com/java/security/cert/class-use/Certificate.html#java.util.jar)            Abstract class for managing a variety of identity certificates. |

| Classes in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) used by [javax.crypto](http://docs.google.com/javax/crypto/package-summary.html) | |
| --- | --- |
| [**Certificate**](http://docs.google.com/java/security/cert/class-use/Certificate.html#javax.crypto)            Abstract class for managing a variety of identity certificates. |

| Classes in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) used by [javax.net.ssl](http://docs.google.com/javax/net/ssl/package-summary.html) | |
| --- | --- |
| [**Certificate**](http://docs.google.com/java/security/cert/class-use/Certificate.html#javax.net.ssl)            Abstract class for managing a variety of identity certificates. |
| [**CertificateException**](http://docs.google.com/java/security/cert/class-use/CertificateException.html#javax.net.ssl)            This exception indicates one of a variety of certificate problems. |
| [**CertPathParameters**](http://docs.google.com/java/security/cert/class-use/CertPathParameters.html#javax.net.ssl)            A specification of certification path algorithm parameters. |
| [**X509Certificate**](http://docs.google.com/java/security/cert/class-use/X509Certificate.html#javax.net.ssl)             Abstract class for X.509 certificates. |

| Classes in [java.security.cert](http://docs.google.com/java/security/cert/package-summary.html) used by [javax.security.auth.x500](http://docs.google.com/javax/security/auth/x500/package-summary.html) | |
| --- | --- |
| [**X509Certificate**](http://docs.google.com/java/security/cert/class-use/X509Certificate.html#javax.security.auth.x500)             Abstract class for X.509 certificates. |

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