| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.html) | [**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 PACKAGE**](http://docs.google.com/java/security/acl/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/java/security/interfaces/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/cert/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

## Package java.security.cert

Provides classes and interfaces for parsing and managing certificates, certificate revocation lists (CRLs), and certification paths.

**See:**

[**Description**](#3znysh7)

| **Interface Summary** | |
| --- | --- |
| [**CertPathBuilderResult**](http://docs.google.com/java/security/cert/CertPathBuilderResult.html) | A specification of the result of a certification path builder algorithm. |
| [**CertPathParameters**](http://docs.google.com/java/security/cert/CertPathParameters.html) | A specification of certification path algorithm parameters. |
| [**CertPathValidatorResult**](http://docs.google.com/java/security/cert/CertPathValidatorResult.html) | A specification of the result of a certification path validator algorithm. |
| [**CertSelector**](http://docs.google.com/java/security/cert/CertSelector.html) | A selector that defines a set of criteria for selecting Certificates. |
| [**CertStoreParameters**](http://docs.google.com/java/security/cert/CertStoreParameters.html) | A specification of CertStore parameters. |
| [**CRLSelector**](http://docs.google.com/java/security/cert/CRLSelector.html) | A selector that defines a set of criteria for selecting CRLs. |
| [**PolicyNode**](http://docs.google.com/java/security/cert/PolicyNode.html) | An immutable valid policy tree node as defined by the PKIX certification path validation algorithm. |
| [**X509Extension**](http://docs.google.com/java/security/cert/X509Extension.html) | Interface for an X.509 extension. |

| **Class Summary** | |
| --- | --- |
| [**Certificate**](http://docs.google.com/java/security/cert/Certificate.html) | Abstract class for managing a variety of identity certificates. |
| [**Certificate.CertificateRep**](http://docs.google.com/java/security/cert/Certificate.CertificateRep.html) | Alternate Certificate class for serialization. |
| [**CertificateFactory**](http://docs.google.com/java/security/cert/CertificateFactory.html) | 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/CertificateFactorySpi.html) | This class defines the *Service Provider Interface* (**SPI**) for the CertificateFactory class. |
| [**CertPath**](http://docs.google.com/java/security/cert/CertPath.html) | An immutable sequence of certificates (a certification path). |
| [**CertPath.CertPathRep**](http://docs.google.com/java/security/cert/CertPath.CertPathRep.html) | Alternate CertPath class for serialization. |
| [**CertPathBuilder**](http://docs.google.com/java/security/cert/CertPathBuilder.html) | A class for building certification paths (also known as certificate chains). |
| [**CertPathBuilderSpi**](http://docs.google.com/java/security/cert/CertPathBuilderSpi.html) | The *Service Provider Interface* (**SPI**) for the [CertPathBuilder](http://docs.google.com/java/security/cert/CertPathBuilder.html) class. |
| [**CertPathValidator**](http://docs.google.com/java/security/cert/CertPathValidator.html) | A class for validating certification paths (also known as certificate chains). |
| [**CertPathValidatorSpi**](http://docs.google.com/java/security/cert/CertPathValidatorSpi.html) | The *Service Provider Interface* (**SPI**) for the [CertPathValidator](http://docs.google.com/java/security/cert/CertPathValidator.html) class. |
| [**CertStore**](http://docs.google.com/java/security/cert/CertStore.html) | A class for retrieving Certificates and CRLs from a repository. |
| [**CertStoreSpi**](http://docs.google.com/java/security/cert/CertStoreSpi.html) | The *Service Provider Interface* (**SPI**) for the [CertStore](http://docs.google.com/java/security/cert/CertStore.html) class. |
| [**CollectionCertStoreParameters**](http://docs.google.com/java/security/cert/CollectionCertStoreParameters.html) | Parameters used as input for the Collection CertStore algorithm. |
| [**CRL**](http://docs.google.com/java/security/cert/CRL.html) | This class is an abstraction of certificate revocation lists (CRLs) that have different formats but important common uses. |
| [**LDAPCertStoreParameters**](http://docs.google.com/java/security/cert/LDAPCertStoreParameters.html) | Parameters used as input for the LDAP CertStore algorithm. |
| [**PKIXBuilderParameters**](http://docs.google.com/java/security/cert/PKIXBuilderParameters.html) | Parameters used as input for the PKIX CertPathBuilder algorithm. |
| [**PKIXCertPathBuilderResult**](http://docs.google.com/java/security/cert/PKIXCertPathBuilderResult.html) | This class represents the successful result of the PKIX certification path builder algorithm. |
| [**PKIXCertPathChecker**](http://docs.google.com/java/security/cert/PKIXCertPathChecker.html) | An abstract class that performs one or more checks on an X509Certificate. |
| [**PKIXCertPathValidatorResult**](http://docs.google.com/java/security/cert/PKIXCertPathValidatorResult.html) | This class represents the successful result of the PKIX certification path validation algorithm. |
| [**PKIXParameters**](http://docs.google.com/java/security/cert/PKIXParameters.html) | Parameters used as input for the PKIX CertPathValidator algorithm. |
| [**PolicyQualifierInfo**](http://docs.google.com/java/security/cert/PolicyQualifierInfo.html) | An immutable policy qualifier represented by the ASN.1 PolicyQualifierInfo structure. |
| [**TrustAnchor**](http://docs.google.com/java/security/cert/TrustAnchor.html) | A trust anchor or most-trusted Certification Authority (CA). |
| [**X509Certificate**](http://docs.google.com/java/security/cert/X509Certificate.html) | Abstract class for X.509 certificates. |
| [**X509CertSelector**](http://docs.google.com/java/security/cert/X509CertSelector.html) | A CertSelector that selects X509Certificates that match all specified criteria. |
| [**X509CRL**](http://docs.google.com/java/security/cert/X509CRL.html) | Abstract class for an X.509 Certificate Revocation List (CRL). |
| [**X509CRLEntry**](http://docs.google.com/java/security/cert/X509CRLEntry.html) | Abstract class for a revoked certificate in a CRL (Certificate Revocation List). |
| [**X509CRLSelector**](http://docs.google.com/java/security/cert/X509CRLSelector.html) | A CRLSelector that selects X509CRLs that match all specified criteria. |

| **Exception Summary** | |
| --- | --- |
| [**CertificateEncodingException**](http://docs.google.com/java/security/cert/CertificateEncodingException.html) | Certificate Encoding Exception. |
| [**CertificateException**](http://docs.google.com/java/security/cert/CertificateException.html) | This exception indicates one of a variety of certificate problems. |
| [**CertificateExpiredException**](http://docs.google.com/java/security/cert/CertificateExpiredException.html) | Certificate Expired Exception. |
| [**CertificateNotYetValidException**](http://docs.google.com/java/security/cert/CertificateNotYetValidException.html) | Certificate is not yet valid exception. |
| [**CertificateParsingException**](http://docs.google.com/java/security/cert/CertificateParsingException.html) | Certificate Parsing Exception. |
| [**CertPathBuilderException**](http://docs.google.com/java/security/cert/CertPathBuilderException.html) | An exception indicating one of a variety of problems encountered when building a certification path with a CertPathBuilder. |
| [**CertPathValidatorException**](http://docs.google.com/java/security/cert/CertPathValidatorException.html) | An exception indicating one of a variety of problems encountered when validating a certification path. |
| [**CertStoreException**](http://docs.google.com/java/security/cert/CertStoreException.html) | An exception indicating one of a variety of problems retrieving certificates and CRLs from a CertStore. |
| [**CRLException**](http://docs.google.com/java/security/cert/CRLException.html) | CRL (Certificate Revocation List) Exception. |

## Package java.security.cert Description

Provides classes and interfaces for parsing and managing certificates, certificate revocation lists (CRLs), and certification paths. It contains support for X.509 v3 certificates and X.509 v2 CRLs.

## Package Specification

* [**Cryptography Architecture**](http://docs.google.com/technotes/guides/security/crypto/CryptoSpec.html)
* RFC 2459: X.509 Certificate and CRL Profile

## Related Documentation

For information about X.509 certificates and CRLs, please see:

* <http://www.ietf.org/rfc/rfc2459.txt>
* [X.509 Certificates and CRLs](http://docs.google.com/technotes/guides/security/cert3.html)

**Since:** 1.2

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