| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CertStoreSpi.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 CLASS**](http://docs.google.com/java/security/cert/CertStoreParameters.html)   [**NEXT CLASS**](http://docs.google.com/java/security/cert/CollectionCertStoreParameters.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/cert/CertStoreSpi.html)    [**NO FRAMES**](http://docs.google.com/CertStoreSpi.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.security.cert**

Class CertStoreSpi

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **java.security.cert.CertStoreSpi**

public abstract class **CertStoreSpi**extends [Object](http://docs.google.com/java/lang/Object.html)

The *Service Provider Interface* (**SPI**) for the [CertStore](http://docs.google.com/java/security/cert/CertStore.html) class. All CertStore implementations must include a class (the SPI class) that extends this class (CertStoreSpi), provides a constructor with a single argument of type CertStoreParameters, and implements all of its methods. In general, instances of this class should only be accessed through the CertStore class. For details, see the Java Cryptography Architecture.

**Concurrent Access**

The public methods of all CertStoreSpi objects must be thread-safe. That is, multiple threads may concurrently invoke these methods on a single CertStoreSpi object (or more than one) with no ill effects. This allows a CertPathBuilder to search for a CRL while simultaneously searching for further certificates, for instance.

Simple CertStoreSpi implementations will probably ensure thread safety by adding a synchronized keyword to their engineGetCertificates and engineGetCRLs methods. More sophisticated ones may allow truly concurrent access.

**Since:** 1.4

| **Constructor Summary** | |
| --- | --- |
| [**CertStoreSpi**](http://docs.google.com/java/security/cert/CertStoreSpi.html#CertStoreSpi(java.security.cert.CertStoreParameters))([CertStoreParameters](http://docs.google.com/java/security/cert/CertStoreParameters.html) params)            The sole constructor. |

| **Method Summary** | |
| --- | --- |
| abstract  [Collection](http://docs.google.com/java/util/Collection.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> | [**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. |
| abstract  [Collection](http://docs.google.com/java/util/Collection.html)<? extends [CRL](http://docs.google.com/java/security/cert/CRL.html)> | [**engineGetCRLs**](http://docs.google.com/java/security/cert/CertStoreSpi.html#engineGetCRLs(java.security.cert.CRLSelector))([CRLSelector](http://docs.google.com/java/security/cert/CRLSelector.html) selector)            Returns a Collection of CRLs that match the specified selector. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### CertStoreSpi

public **CertStoreSpi**([CertStoreParameters](http://docs.google.com/java/security/cert/CertStoreParameters.html) params)  
 throws [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html)

The sole constructor.

**Parameters:**params - the initialization parameters (may be null) **Throws:** [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html) - if the initialization parameters are inappropriate for this CertStoreSpi

| **Method Detail** |
| --- |

### engineGetCertificates

public abstract [Collection](http://docs.google.com/java/util/Collection.html)<? extends [Certificate](http://docs.google.com/java/security/cert/Certificate.html)> **engineGetCertificates**([CertSelector](http://docs.google.com/java/security/cert/CertSelector.html) selector)  
 throws [CertStoreException](http://docs.google.com/java/security/cert/CertStoreException.html)

Returns a Collection of Certificates that match the specified selector. If no Certificates match the selector, an empty Collection will be returned.

For some CertStore types, the resulting Collection may not contain **all** of the Certificates that match the selector. For instance, an LDAP CertStore may not search all entries in the directory. Instead, it may just search entries that are likely to contain the Certificates it is looking for.

Some CertStore implementations (especially LDAP CertStores) may throw a CertStoreException unless a non-null CertSelector is provided that includes specific criteria that can be used to find the certificates. Issuer and/or subject names are especially useful criteria.

**Parameters:**selector - A CertSelector used to select which Certificates should be returned. Specify null to return all Certificates (if supported). **Returns:**A Collection of Certificates that match the specified selector (never null) **Throws:** [CertStoreException](http://docs.google.com/java/security/cert/CertStoreException.html) - if an exception occurs

### engineGetCRLs

public abstract [Collection](http://docs.google.com/java/util/Collection.html)<? extends [CRL](http://docs.google.com/java/security/cert/CRL.html)> **engineGetCRLs**([CRLSelector](http://docs.google.com/java/security/cert/CRLSelector.html) selector)  
 throws [CertStoreException](http://docs.google.com/java/security/cert/CertStoreException.html)

Returns a Collection of CRLs that match the specified selector. If no CRLs match the selector, an empty Collection will be returned.

For some CertStore types, the resulting Collection may not contain **all** of the CRLs that match the selector. For instance, an LDAP CertStore may not search all entries in the directory. Instead, it may just search entries that are likely to contain the CRLs it is looking for.

Some CertStore implementations (especially LDAP CertStores) may throw a CertStoreException unless a non-null CRLSelector is provided that includes specific criteria that can be used to find the CRLs. Issuer names and/or the certificate to be checked are especially useful.

**Parameters:**selector - A CRLSelector used to select which CRLs should be returned. Specify null to return all CRLs (if supported). **Returns:**A Collection of CRLs that match the specified selector (never null) **Throws:** [CertStoreException](http://docs.google.com/java/security/cert/CertStoreException.html) - if an exception occurs

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CertStoreSpi.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 CLASS**](http://docs.google.com/java/security/cert/CertStoreParameters.html)   [**NEXT CLASS**](http://docs.google.com/java/security/cert/CollectionCertStoreParameters.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/cert/CertStoreSpi.html)    [**NO FRAMES**](http://docs.google.com/CertStoreSpi.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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