| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KeyStore.PrivateKeyEntry.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/KeyStore.PasswordProtection.html)   [**NEXT CLASS**](http://docs.google.com/java/security/KeyStore.ProtectionParameter.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/KeyStore.PrivateKeyEntry.html)    [**NO FRAMES**](http://docs.google.com/KeyStore.PrivateKeyEntry.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**

Class KeyStore.PrivateKeyEntry

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

**All Implemented Interfaces:** [KeyStore.Entry](http://docs.google.com/java/security/KeyStore.Entry.html) **Enclosing class:**[KeyStore](http://docs.google.com/java/security/KeyStore.html)

public static final class **KeyStore.PrivateKeyEntry**extends [Object](http://docs.google.com/java/lang/Object.html)implements [KeyStore.Entry](http://docs.google.com/java/security/KeyStore.Entry.html)

A KeyStore entry that holds a PrivateKey and corresponding certificate chain.

**Since:** 1.5

| **Constructor Summary** | |
| --- | --- |
| [**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. |

| **Method Summary** | |
| --- | --- |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html) | [**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)[] | [**getCertificateChain**](http://docs.google.com/java/security/KeyStore.PrivateKeyEntry.html#getCertificateChain())()            Gets the Certificate chain from this entry. |
| [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) | [**getPrivateKey**](http://docs.google.com/java/security/KeyStore.PrivateKeyEntry.html#getPrivateKey())()            Gets the PrivateKey from this entry. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/security/KeyStore.PrivateKeyEntry.html#toString())()            Returns a string representation of this PrivateKeyEntry. |

| **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()), [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** |
| --- |

### KeyStore.PrivateKeyEntry

public **KeyStore.PrivateKeyEntry**([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.

The specified chain is cloned before it is stored in the new PrivateKeyEntry object.

**Parameters:**privateKey - the PrivateKeychain - an array of Certificates representing the certificate chain. The chain must be ordered and contain a Certificate at index 0 corresponding to the private key. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if privateKey or chain is null [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the specified chain has a length of 0, if the specified chain does not contain Certificates of the same type, or if the PrivateKey algorithm does not match the algorithm of the PublicKey in the end entity Certificate (at index 0)

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

### getPrivateKey

public [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) **getPrivateKey**()

Gets the PrivateKey from this entry.

**Returns:**the PrivateKey from this entry

### getCertificateChain

public [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] **getCertificateChain**()

Gets the Certificate chain from this entry.

The stored chain is cloned before being returned.

**Returns:**an array of Certificates corresponding to the certificate chain for the public key. If the certificates are of type X.509, the runtime type of the returned array is X509Certificate[].

### getCertificate

public [Certificate](http://docs.google.com/java/security/cert/Certificate.html) **getCertificate**()

Gets the end entity Certificate from the certificate chain in this entry.

**Returns:**the end entity Certificate (at index 0) from the certificate chain in this entry. If the certificate is of type X.509, the runtime type of the returned certificate is X509Certificate.

### toString

public [String](http://docs.google.com/java/lang/String.html) **toString**()

Returns a string representation of this PrivateKeyEntry.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of this PrivateKeyEntry.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KeyStore.PrivateKeyEntry.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/KeyStore.PasswordProtection.html)   [**NEXT CLASS**](http://docs.google.com/java/security/KeyStore.ProtectionParameter.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/KeyStore.PrivateKeyEntry.html)    [**NO FRAMES**](http://docs.google.com/KeyStore.PrivateKeyEntry.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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).