| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Signer.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/SignedObject.html)   [**NEXT CLASS**](http://docs.google.com/java/security/Timestamp.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/Signer.html)    [**NO FRAMES**](http://docs.google.com/Signer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#3rdcrjn) |

## **java.security**

Class Signer

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Principal](http://docs.google.com/java/security/Principal.html)**Deprecated.** *This class is no longer used. Its functionality has been replaced by java.security.KeyStore, the java.security.cert package, and java.security.Principal.*

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public abstract class **Signer**extends [Identity](http://docs.google.com/java/security/Identity.html)

This class is used to represent an Identity that can also digitally sign data.

The management of a signer's private keys is an important and sensitive issue that should be handled by subclasses as appropriate to their intended use.

**See Also:**[Identity](http://docs.google.com/java/security/Identity.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.security.Signer)

| **Constructor Summary** | |
| --- | --- |
| protected | [**Signer**](http://docs.google.com/java/security/Signer.html#Signer())()  **Deprecated.** Creates a signer. |
|  | [**Signer**](http://docs.google.com/java/security/Signer.html#Signer(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)  **Deprecated.** Creates a signer with the specified identity name. |
|  | [**Signer**](http://docs.google.com/java/security/Signer.html#Signer(java.lang.String,%20java.security.IdentityScope))([String](http://docs.google.com/java/lang/String.html) name, [IdentityScope](http://docs.google.com/java/security/IdentityScope.html) scope)  **Deprecated.** Creates a signer with the specified identity name and scope. |

| **Method Summary** | |
| --- | --- |
| [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) | [**getPrivateKey**](http://docs.google.com/java/security/Signer.html#getPrivateKey())()  **Deprecated.** Returns this signer's private key. |
| void | [**setKeyPair**](http://docs.google.com/java/security/Signer.html#setKeyPair(java.security.KeyPair))([KeyPair](http://docs.google.com/java/security/KeyPair.html) pair)  **Deprecated.** Sets the key pair (public key and private key) for this signer. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/security/Signer.html#toString())()  **Deprecated.** Returns a string of information about the signer. |

| **Methods inherited from class java.security.**[**Identity**](http://docs.google.com/java/security/Identity.html) |
| --- |
| [addCertificate](http://docs.google.com/java/security/Identity.html#addCertificate(java.security.Certificate)), [certificates](http://docs.google.com/java/security/Identity.html#certificates()), [equals](http://docs.google.com/java/security/Identity.html#equals(java.lang.Object)), [getInfo](http://docs.google.com/java/security/Identity.html#getInfo()), [getName](http://docs.google.com/java/security/Identity.html#getName()), [getPublicKey](http://docs.google.com/java/security/Identity.html#getPublicKey()), [getScope](http://docs.google.com/java/security/Identity.html#getScope()), [hashCode](http://docs.google.com/java/security/Identity.html#hashCode()), [identityEquals](http://docs.google.com/java/security/Identity.html#identityEquals(java.security.Identity)), [removeCertificate](http://docs.google.com/java/security/Identity.html#removeCertificate(java.security.Certificate)), [setInfo](http://docs.google.com/java/security/Identity.html#setInfo(java.lang.String)), [setPublicKey](http://docs.google.com/java/security/Identity.html#setPublicKey(java.security.PublicKey)), [toString](http://docs.google.com/java/security/Identity.html#toString(boolean)) |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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** |
| --- |

### Signer

protected **Signer**()

**Deprecated.** Creates a signer. This constructor should only be used for serialization.

### Signer

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

**Deprecated.** Creates a signer with the specified identity name.

**Parameters:**name - the identity name.

### Signer

public **Signer**([String](http://docs.google.com/java/lang/String.html) name,  
 [IdentityScope](http://docs.google.com/java/security/IdentityScope.html) scope)  
 throws [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html)

**Deprecated.** Creates a signer with the specified identity name and scope.

**Parameters:**name - the identity name.scope - the scope of the identity. **Throws:** [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html) - if there is already an identity with the same name in the scope.

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

### getPrivateKey

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

**Deprecated.** Returns this signer's private key.

First, if there is a security manager, its checkSecurityAccess method is called with "getSignerPrivateKey" as its argument to see if it's ok to return the private key.

**Returns:**this signer's private key, or null if the private key has not yet been set. **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and its checkSecurityAccess method doesn't allow returning the private key.**See Also:**[SecurityManager.checkSecurityAccess(java.lang.String)](http://docs.google.com/java/lang/SecurityManager.html#checkSecurityAccess(java.lang.String))

### setKeyPair

public final void **setKeyPair**([KeyPair](http://docs.google.com/java/security/KeyPair.html) pair)  
 throws [InvalidParameterException](http://docs.google.com/java/security/InvalidParameterException.html),  
 [KeyException](http://docs.google.com/java/security/KeyException.html)

**Deprecated.** Sets the key pair (public key and private key) for this signer.

First, if there is a security manager, its checkSecurityAccess method is called with "setSignerKeyPair" as its argument to see if it's ok to set the key pair.

**Parameters:**pair - an initialized key pair. **Throws:** [InvalidParameterException](http://docs.google.com/java/security/InvalidParameterException.html) - if the key pair is not properly initialized. [KeyException](http://docs.google.com/java/security/KeyException.html) - if the key pair cannot be set for any other reason. [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and its checkSecurityAccess method doesn't allow setting the key pair.**See Also:**[SecurityManager.checkSecurityAccess(java.lang.String)](http://docs.google.com/java/lang/SecurityManager.html#checkSecurityAccess(java.lang.String))

### toString

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

**Deprecated.** Returns a string of information about the signer.

**Specified by:**[toString](http://docs.google.com/java/security/Principal.html#toString()) in interface [Principal](http://docs.google.com/java/security/Principal.html)**Overrides:**[toString](http://docs.google.com/java/security/Identity.html#toString()) in class [Identity](http://docs.google.com/java/security/Identity.html) **Returns:**a string of information about the signer.**See Also:**[SecurityManager.checkSecurityAccess(java.lang.String)](http://docs.google.com/java/lang/SecurityManager.html#checkSecurityAccess(java.lang.String))

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