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

## **javax.net.ssl**

Class KeyManagerFactorySpi

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.net.ssl.KeyManagerFactorySpi**

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

This class defines the *Service Provider Interface* (**SPI**) for the KeyManagerFactory class.

All the abstract methods in this class must be implemented by each cryptographic service provider who wishes to supply the implementation of a particular key manager factory.

**Since:** 1.4 **See Also:**[KeyManagerFactory](http://docs.google.com/javax/net/ssl/KeyManagerFactory.html), [KeyManager](http://docs.google.com/javax/net/ssl/KeyManager.html)

| **Constructor Summary** | |
| --- | --- |
| [**KeyManagerFactorySpi**](http://docs.google.com/javax/net/ssl/KeyManagerFactorySpi.html#KeyManagerFactorySpi())() |

| **Method Summary** | |
| --- | --- |
| protected abstract  [KeyManager](http://docs.google.com/javax/net/ssl/KeyManager.html)[] | [**engineGetKeyManagers**](http://docs.google.com/javax/net/ssl/KeyManagerFactorySpi.html#engineGetKeyManagers())()            Returns one key manager for each type of key material. |
| protected abstract  void | [**engineInit**](http://docs.google.com/javax/net/ssl/KeyManagerFactorySpi.html#engineInit(java.security.KeyStore,%20char%5B%5D))([KeyStore](http://docs.google.com/java/security/KeyStore.html) ks, char[] password)            Initializes this factory with a source of key material. |
| protected abstract  void | [**engineInit**](http://docs.google.com/javax/net/ssl/KeyManagerFactorySpi.html#engineInit(javax.net.ssl.ManagerFactoryParameters))([ManagerFactoryParameters](http://docs.google.com/javax/net/ssl/ManagerFactoryParameters.html) spec)            Initializes this factory with a source of key material. |

| **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** |
| --- |

### KeyManagerFactorySpi

public **KeyManagerFactorySpi**()

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

### engineInit

protected abstract void **engineInit**([KeyStore](http://docs.google.com/java/security/KeyStore.html) ks,  
 char[] password)  
 throws [KeyStoreException](http://docs.google.com/java/security/KeyStoreException.html),  
 [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html),  
 [UnrecoverableKeyException](http://docs.google.com/java/security/UnrecoverableKeyException.html)

Initializes this factory with a source of key material.

**Parameters:**ks - the key store or nullpassword - the password for recovering keys **Throws:** [KeyStoreException](http://docs.google.com/java/security/KeyStoreException.html) - if this operation fails [NoSuchAlgorithmException](http://docs.google.com/java/security/NoSuchAlgorithmException.html) - if the specified algorithm is not available from the specified provider. [UnrecoverableKeyException](http://docs.google.com/java/security/UnrecoverableKeyException.html) - if the key cannot be recovered**See Also:**[KeyManagerFactory.init(KeyStore, char[])](http://docs.google.com/javax/net/ssl/KeyManagerFactory.html#init(java.security.KeyStore,%20char%5B%5D))

### engineInit

protected abstract void **engineInit**([ManagerFactoryParameters](http://docs.google.com/javax/net/ssl/ManagerFactoryParameters.html) spec)  
 throws [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html)

Initializes this factory with a source of key material.

In some cases, initialization parameters other than a keystore and password may be needed by a provider. Users of that particular provider are expected to pass an implementation of the appropriate ManagerFactoryParameters as defined by the provider. The provider can then call the specified methods in the ManagerFactoryParameters implementation to obtain the needed information.

**Parameters:**spec - an implementation of a provider-specific parameter specification **Throws:** [InvalidAlgorithmParameterException](http://docs.google.com/java/security/InvalidAlgorithmParameterException.html) - if there is problem with the parameters**See Also:**[KeyManagerFactory.init(ManagerFactoryParameters spec)](http://docs.google.com/javax/net/ssl/KeyManagerFactory.html#init(javax.net.ssl.ManagerFactoryParameters))

### engineGetKeyManagers

protected abstract [KeyManager](http://docs.google.com/javax/net/ssl/KeyManager.html)[] **engineGetKeyManagers**()

Returns one key manager for each type of key material.

**Returns:**the key managers **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if the KeyManagerFactorySpi is not initialized

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KeyManagerFactorySpi.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/javax/net/ssl/KeyManagerFactory.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/KeyStoreBuilderParameters.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/KeyManagerFactorySpi.html)    [**NO FRAMES**](http://docs.google.com/KeyManagerFactorySpi.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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