| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/X509ExtendedKeyManager.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/TrustManagerFactorySpi.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/X509KeyManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/X509ExtendedKeyManager.html)    [**NO FRAMES**](http://docs.google.com/X509ExtendedKeyManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **javax.net.ssl**

Class X509ExtendedKeyManager

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.net.ssl.X509ExtendedKeyManager**

**All Implemented Interfaces:** [KeyManager](http://docs.google.com/javax/net/ssl/KeyManager.html), [X509KeyManager](http://docs.google.com/javax/net/ssl/X509KeyManager.html)

public abstract class **X509ExtendedKeyManager**extends [Object](http://docs.google.com/java/lang/Object.html)implements [X509KeyManager](http://docs.google.com/javax/net/ssl/X509KeyManager.html)

Abstract class that provides for extension of the X509KeyManager interface.

Methods in this class should be overriden to provide actual implementations.

**Since:** 1.5

| **Constructor Summary** | |
| --- | --- |
| protected | [**X509ExtendedKeyManager**](http://docs.google.com/javax/net/ssl/X509ExtendedKeyManager.html#X509ExtendedKeyManager())()            Constructor used by subclasses only. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**chooseEngineClientAlias**](http://docs.google.com/javax/net/ssl/X509ExtendedKeyManager.html#chooseEngineClientAlias(java.lang.String%5B%5D,%20java.security.Principal%5B%5D,%20javax.net.ssl.SSLEngine))([String](http://docs.google.com/java/lang/String.html)[] keyType, [Principal](http://docs.google.com/java/security/Principal.html)[] issuers, [SSLEngine](http://docs.google.com/javax/net/ssl/SSLEngine.html) engine)            Choose an alias to authenticate the client side of an SSLEngine connection given the public key type and the list of certificate issuer authorities recognized by the peer (if any). |
| [String](http://docs.google.com/java/lang/String.html) | [**chooseEngineServerAlias**](http://docs.google.com/javax/net/ssl/X509ExtendedKeyManager.html#chooseEngineServerAlias(java.lang.String,%20java.security.Principal%5B%5D,%20javax.net.ssl.SSLEngine))([String](http://docs.google.com/java/lang/String.html) keyType, [Principal](http://docs.google.com/java/security/Principal.html)[] issuers, [SSLEngine](http://docs.google.com/javax/net/ssl/SSLEngine.html) engine)            Choose an alias to authenticate the server side of an SSLEngine connection given the public key type and the list of certificate issuer authorities recognized by the peer (if any). |

| **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)) |

| **Methods inherited from interface javax.net.ssl.**[**X509KeyManager**](http://docs.google.com/javax/net/ssl/X509KeyManager.html) |
| --- |
| [chooseClientAlias](http://docs.google.com/javax/net/ssl/X509KeyManager.html#chooseClientAlias(java.lang.String%5B%5D,%20java.security.Principal%5B%5D,%20java.net.Socket)), [chooseServerAlias](http://docs.google.com/javax/net/ssl/X509KeyManager.html#chooseServerAlias(java.lang.String,%20java.security.Principal%5B%5D,%20java.net.Socket)), [getCertificateChain](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getCertificateChain(java.lang.String)), [getClientAliases](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getClientAliases(java.lang.String,%20java.security.Principal%5B%5D)), [getPrivateKey](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getPrivateKey(java.lang.String)), [getServerAliases](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getServerAliases(java.lang.String,%20java.security.Principal%5B%5D)) |

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

### X509ExtendedKeyManager

protected **X509ExtendedKeyManager**()

Constructor used by subclasses only.

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

### chooseEngineClientAlias

public [String](http://docs.google.com/java/lang/String.html) **chooseEngineClientAlias**([String](http://docs.google.com/java/lang/String.html)[] keyType,  
 [Principal](http://docs.google.com/java/security/Principal.html)[] issuers,  
 [SSLEngine](http://docs.google.com/javax/net/ssl/SSLEngine.html) engine)

Choose an alias to authenticate the client side of an SSLEngine connection given the public key type and the list of certificate issuer authorities recognized by the peer (if any).

The default implementation returns null.

**Parameters:**keyType - the key algorithm type name(s), ordered with the most-preferred key type first.issuers - the list of acceptable CA issuer subject names or null if it does not matter which issuers are used.engine - the SSLEngine to be used for this connection. This parameter can be null, which indicates that implementations of this interface are free to select an alias applicable to any engine. **Returns:**the alias name for the desired key, or null if there are no matches.

### chooseEngineServerAlias

public [String](http://docs.google.com/java/lang/String.html) **chooseEngineServerAlias**([String](http://docs.google.com/java/lang/String.html) keyType,  
 [Principal](http://docs.google.com/java/security/Principal.html)[] issuers,  
 [SSLEngine](http://docs.google.com/javax/net/ssl/SSLEngine.html) engine)

Choose an alias to authenticate the server side of an SSLEngine connection given the public key type and the list of certificate issuer authorities recognized by the peer (if any).

The default implementation returns null.

**Parameters:**keyType - the key algorithm type name.issuers - the list of acceptable CA issuer subject names or null if it does not matter which issuers are used.engine - the SSLEngine to be used for this connection. This parameter can be null, which indicates that implementations of this interface are free to select an alias applicable to any engine. **Returns:**the alias name for the desired key, or null if there are no matches.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/X509ExtendedKeyManager.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/TrustManagerFactorySpi.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/X509KeyManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/X509ExtendedKeyManager.html)    [**NO FRAMES**](http://docs.google.com/X509ExtendedKeyManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

[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).