| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/X509KeyManager.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/X509ExtendedKeyManager.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/X509TrustManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/X509KeyManager.html)    [**NO FRAMES**](http://docs.google.com/X509KeyManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

## **javax.net.ssl**

Interface X509KeyManager

**All Superinterfaces:** [KeyManager](http://docs.google.com/javax/net/ssl/KeyManager.html) **All Known Implementing Classes:** [X509ExtendedKeyManager](http://docs.google.com/javax/net/ssl/X509ExtendedKeyManager.html)

public interface **X509KeyManager**extends [KeyManager](http://docs.google.com/javax/net/ssl/KeyManager.html)

Instances of this interface manage which X509 certificate-based key pairs are used to authenticate the local side of a secure socket.

During secure socket negotiations, implentations call methods in this interface to:

* determine the set of aliases that are available for negotiations based on the criteria presented,
* select the best alias based on the criteria presented, and
* obtain the corresponding key material for given aliases.

Note: the X509ExtendedKeyManager should be used in favor of this class.

**Since:** 1.4

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.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))([String](http://docs.google.com/java/lang/String.html)[] keyType, [Principal](http://docs.google.com/java/security/Principal.html)[] issuers, [Socket](http://docs.google.com/java/net/Socket.html) socket)            Choose an alias to authenticate the client side of a secure socket 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) | [**chooseServerAlias**](http://docs.google.com/javax/net/ssl/X509KeyManager.html#chooseServerAlias(java.lang.String,%20java.security.Principal%5B%5D,%20java.net.Socket))([String](http://docs.google.com/java/lang/String.html) keyType, [Principal](http://docs.google.com/java/security/Principal.html)[] issuers, [Socket](http://docs.google.com/java/net/Socket.html) socket)            Choose an alias to authenticate the server side of a secure socket given the public key type and the list of certificate issuer authorities recognized by the peer (if any). |
| [X509Certificate](http://docs.google.com/java/security/cert/X509Certificate.html)[] | [**getCertificateChain**](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getCertificateChain(java.lang.String))([String](http://docs.google.com/java/lang/String.html) alias)            Returns the certificate chain associated with the given alias. |
| [String](http://docs.google.com/java/lang/String.html)[] | [**getClientAliases**](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getClientAliases(java.lang.String,%20java.security.Principal%5B%5D))([String](http://docs.google.com/java/lang/String.html) keyType, [Principal](http://docs.google.com/java/security/Principal.html)[] issuers)            Get the matching aliases for authenticating the client side of a secure socket given the public key type and the list of certificate issuer authorities recognized by the peer (if any). |
| [PrivateKey](http://docs.google.com/java/security/PrivateKey.html) | [**getPrivateKey**](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getPrivateKey(java.lang.String))([String](http://docs.google.com/java/lang/String.html) alias)            Returns the key associated with the given alias. |
| [String](http://docs.google.com/java/lang/String.html)[] | [**getServerAliases**](http://docs.google.com/javax/net/ssl/X509KeyManager.html#getServerAliases(java.lang.String,%20java.security.Principal%5B%5D))([String](http://docs.google.com/java/lang/String.html) keyType, [Principal](http://docs.google.com/java/security/Principal.html)[] issuers)            Get the matching aliases for authenticating the server side of a secure socket given the public key type and the list of certificate issuer authorities recognized by the peer (if any). |

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

### getClientAliases

[String](http://docs.google.com/java/lang/String.html)[] **getClientAliases**([String](http://docs.google.com/java/lang/String.html) keyType,  
 [Principal](http://docs.google.com/java/security/Principal.html)[] issuers)

Get the matching aliases for authenticating the client side of a secure socket given the public key type and the list of certificate issuer authorities recognized by the peer (if any).

**Parameters:**keyType - the key algorithm type nameissuers - the list of acceptable CA issuer subject names, or null if it does not matter which issuers are used. **Returns:**an array of the matching alias names, or null if there were no matches.

### chooseClientAlias

[String](http://docs.google.com/java/lang/String.html) **chooseClientAlias**([String](http://docs.google.com/java/lang/String.html)[] keyType,  
 [Principal](http://docs.google.com/java/security/Principal.html)[] issuers,  
 [Socket](http://docs.google.com/java/net/Socket.html) socket)

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

**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.socket - the socket to be used for this connection. This parameter can be null, which indicates that implementations are free to select an alias applicable to any socket. **Returns:**the alias name for the desired key, or null if there are no matches.

### getServerAliases

[String](http://docs.google.com/java/lang/String.html)[] **getServerAliases**([String](http://docs.google.com/java/lang/String.html) keyType,  
 [Principal](http://docs.google.com/java/security/Principal.html)[] issuers)

Get the matching aliases for authenticating the server side of a secure socket given the public key type and the list of certificate issuer authorities recognized by the peer (if any).

**Parameters:**keyType - the key algorithm type nameissuers - the list of acceptable CA issuer subject names or null if it does not matter which issuers are used. **Returns:**an array of the matching alias names, or null if there were no matches.

### chooseServerAlias

[String](http://docs.google.com/java/lang/String.html) **chooseServerAlias**([String](http://docs.google.com/java/lang/String.html) keyType,  
 [Principal](http://docs.google.com/java/security/Principal.html)[] issuers,  
 [Socket](http://docs.google.com/java/net/Socket.html) socket)

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

**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.socket - the socket to be used for this connection. This parameter can be null, which indicates that implementations are free to select an alias applicable to any socket. **Returns:**the alias name for the desired key, or null if there are no matches.

### getCertificateChain

[X509Certificate](http://docs.google.com/java/security/cert/X509Certificate.html)[] **getCertificateChain**([String](http://docs.google.com/java/lang/String.html) alias)

Returns the certificate chain associated with the given alias.

**Parameters:**alias - the alias name **Returns:**the certificate chain (ordered with the user's certificate first and the root certificate authority last), or null if the alias can't be found.

### getPrivateKey

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

Returns the key associated with the given alias.

**Parameters:**alias - the alias name **Returns:**the requested key, or null if the alias can't be found.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/X509KeyManager.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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| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#3znysh7) | DETAIL: FIELD | CONSTR | [METHOD](#2et92p0) |

[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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