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

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

public abstract class **SSLSocketFactory**extends [SocketFactory](http://docs.google.com/javax/net/SocketFactory.html)

SSLSocketFactorys create SSLSockets.

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

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

| **Method Summary** | |
| --- | --- |
| abstract  [Socket](http://docs.google.com/java/net/Socket.html) | [**createSocket**](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html#createSocket(java.net.Socket,%20java.lang.String,%20int,%20boolean))([Socket](http://docs.google.com/java/net/Socket.html) s, [String](http://docs.google.com/java/lang/String.html) host, int port, boolean autoClose)            Returns a socket layered over an existing socket connected to the named host, at the given port. |
| static [SocketFactory](http://docs.google.com/javax/net/SocketFactory.html) | [**getDefault**](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html#getDefault())()            Returns the default SSL socket factory. |
| abstract  [String](http://docs.google.com/java/lang/String.html)[] | [**getDefaultCipherSuites**](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html#getDefaultCipherSuites())()            Returns the list of cipher suites which are enabled by default. |
| abstract  [String](http://docs.google.com/java/lang/String.html)[] | [**getSupportedCipherSuites**](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html#getSupportedCipherSuites())()            Returns the names of the cipher suites which could be enabled for use on an SSL connection. |

| **Methods inherited from class javax.net.**[**SocketFactory**](http://docs.google.com/javax/net/SocketFactory.html) |
| --- |
| [createSocket](http://docs.google.com/javax/net/SocketFactory.html#createSocket()), [createSocket](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.net.InetAddress,%20int)), [createSocket](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.net.InetAddress,%20int,%20java.net.InetAddress,%20int)), [createSocket](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.lang.String,%20int)), [createSocket](http://docs.google.com/javax/net/SocketFactory.html#createSocket(java.lang.String,%20int,%20java.net.InetAddress,%20int)) |

| **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** |
| --- |

### SSLSocketFactory

public **SSLSocketFactory**()

Constructor is used only by subclasses.

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

### getDefault

public static [SocketFactory](http://docs.google.com/javax/net/SocketFactory.html) **getDefault**()

Returns the default SSL socket factory.

The first time this method is called, the security property "ssl.SocketFactory.provider" is examined. If it is non-null, a class by that name is loaded and instantiated. If that is successful and the object is an instance of SSLSocketFactory, it is made the default SSL socket factory.

Otherwise, this method returns SSLContext.getDefault().getSocketFactory(). If that call fails, an inoperative factory is returned.

**Returns:**the default SocketFactory**See Also:**[SSLContext.getDefault()](http://docs.google.com/javax/net/ssl/SSLContext.html#getDefault())

### getDefaultCipherSuites

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

Returns the list of cipher suites which are enabled by default. Unless a different list is enabled, handshaking on an SSL connection will use one of these cipher suites. The minimum quality of service for these defaults requires confidentiality protection and server authentication (that is, no anonymous cipher suites).

**Returns:**array of the cipher suites enabled by default**See Also:**[getSupportedCipherSuites()](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html#getSupportedCipherSuites())

### getSupportedCipherSuites

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

Returns the names of the cipher suites which could be enabled for use on an SSL connection. Normally, only a subset of these will actually be enabled by default, since this list may include cipher suites which do not meet quality of service requirements for those defaults. Such cipher suites are useful in specialized applications.

**Returns:**an array of cipher suite names**See Also:**[getDefaultCipherSuites()](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html#getDefaultCipherSuites())

### createSocket

public abstract [Socket](http://docs.google.com/java/net/Socket.html) **createSocket**([Socket](http://docs.google.com/java/net/Socket.html) s,  
 [String](http://docs.google.com/java/lang/String.html) host,  
 int port,  
 boolean autoClose)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Returns a socket layered over an existing socket connected to the named host, at the given port. This constructor can be used when tunneling SSL through a proxy or when negotiating the use of SSL over an existing socket. The host and port refer to the logical peer destination. This socket is configured using the socket options established for this factory.

**Parameters:**s - the existing sockethost - the server hostport - the server portautoClose - close the underlying socket when this socket is closed **Returns:**a socket connected to the specified host and port **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs when creating the socket [UnknownHostException](http://docs.google.com/java/net/UnknownHostException.html) - if the host is not known

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

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