| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.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 PACKAGE**](http://docs.google.com/javax/net/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/print/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

## Package javax.net.ssl

Provides classes for the secure socket package.

**See:**

[**Description**](#3znysh7)

| **Interface Summary** | |
| --- | --- |
| [**HandshakeCompletedListener**](http://docs.google.com/javax/net/ssl/HandshakeCompletedListener.html) | This interface is implemented by any class which wants to receive notifications about the completion of an SSL protocol handshake on a given SSL connection. |
| [**HostnameVerifier**](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) | This class is the base interface for hostname verification. |
| [**KeyManager**](http://docs.google.com/javax/net/ssl/KeyManager.html) | This is the base interface for JSSE key managers. |
| [**ManagerFactoryParameters**](http://docs.google.com/javax/net/ssl/ManagerFactoryParameters.html) | This class is the base interface for providing algorithm-specific information to a KeyManagerFactory or TrustManagerFactory. |
| [**SSLSession**](http://docs.google.com/javax/net/ssl/SSLSession.html) | In SSL, sessions are used to describe an ongoing relationship between two entities. |
| [**SSLSessionBindingListener**](http://docs.google.com/javax/net/ssl/SSLSessionBindingListener.html) | This interface is implemented by objects which want to know when they are being bound or unbound from a SSLSession. |
| [**SSLSessionContext**](http://docs.google.com/javax/net/ssl/SSLSessionContext.html) | A SSLSessionContext represents a set of SSLSessions associated with a single entity. |
| [**TrustManager**](http://docs.google.com/javax/net/ssl/TrustManager.html) | This is the base interface for JSSE trust managers. |
| [**X509KeyManager**](http://docs.google.com/javax/net/ssl/X509KeyManager.html) | Instances of this interface manage which X509 certificate-based key pairs are used to authenticate the local side of a secure socket. |
| [**X509TrustManager**](http://docs.google.com/javax/net/ssl/X509TrustManager.html) | Instance of this interface manage which X509 certificates may be used to authenticate the remote side of a secure socket. |

| **Class Summary** | |
| --- | --- |
| [**CertPathTrustManagerParameters**](http://docs.google.com/javax/net/ssl/CertPathTrustManagerParameters.html) | A wrapper for CertPathParameters. |
| [**HandshakeCompletedEvent**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html) | This event indicates that an SSL handshake completed on a given SSL connection. |
| [**HttpsURLConnection**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html) | HttpsURLConnection extends HttpURLConnection with support for https-specific features. |
| [**KeyManagerFactory**](http://docs.google.com/javax/net/ssl/KeyManagerFactory.html) | This class acts as a factory for key managers based on a source of key material. |
| [**KeyManagerFactorySpi**](http://docs.google.com/javax/net/ssl/KeyManagerFactorySpi.html) | This class defines the *Service Provider Interface* (**SPI**) for the KeyManagerFactory class. |
| [**KeyStoreBuilderParameters**](http://docs.google.com/javax/net/ssl/KeyStoreBuilderParameters.html) | A parameters object for X509KeyManagers that encapsulates a List of KeyStore.Builders. |
| [**SSLContext**](http://docs.google.com/javax/net/ssl/SSLContext.html) | Instances of this class represent a secure socket protocol implementation which acts as a factory for secure socket factories or SSLEngines. |
| [**SSLContextSpi**](http://docs.google.com/javax/net/ssl/SSLContextSpi.html) | This class defines the *Service Provider Interface* (**SPI**) for the SSLContext class. |
| [**SSLEngine**](http://docs.google.com/javax/net/ssl/SSLEngine.html) | A class which enables secure communications using protocols such as the Secure Sockets Layer (SSL) or  [IETF RFC 2246 "Transport Layer Security" (TLS)](http://www.ietf.org/rfc/rfc2246.txt)  protocols, but is transport independent. |
| [**SSLEngineResult**](http://docs.google.com/javax/net/ssl/SSLEngineResult.html) | An encapsulation of the result state produced by SSLEngine I/O calls. |
| [**SSLParameters**](http://docs.google.com/javax/net/ssl/SSLParameters.html) | Encapsulates parameters for an SSL/TLS connection. |
| [**SSLPermission**](http://docs.google.com/javax/net/ssl/SSLPermission.html) | This class is for various network permissions. |
| [**SSLServerSocket**](http://docs.google.com/javax/net/ssl/SSLServerSocket.html) | This class extends ServerSockets and provides secure server sockets using protocols such as the Secure Sockets Layer (SSL) or Transport Layer Security (TLS) protocols. |
| [**SSLServerSocketFactory**](http://docs.google.com/javax/net/ssl/SSLServerSocketFactory.html) | SSLServerSocketFactorys create SSLServerSockets. |
| [**SSLSessionBindingEvent**](http://docs.google.com/javax/net/ssl/SSLSessionBindingEvent.html) | This event is propagated to a SSLSessionBindingListener. |
| [**SSLSocket**](http://docs.google.com/javax/net/ssl/SSLSocket.html) | This class extends Sockets and provides secure socket using protocols such as the "Secure Sockets Layer" (SSL) or IETF "Transport Layer Security" (TLS) protocols. |
| [**SSLSocketFactory**](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) | SSLSocketFactorys create SSLSockets. |
| [**TrustManagerFactory**](http://docs.google.com/javax/net/ssl/TrustManagerFactory.html) | This class acts as a factory for trust managers based on a source of trust material. |
| [**TrustManagerFactorySpi**](http://docs.google.com/javax/net/ssl/TrustManagerFactorySpi.html) | This class defines the *Service Provider Interface* (**SPI**) for the TrustManagerFactory class. |
| [**X509ExtendedKeyManager**](http://docs.google.com/javax/net/ssl/X509ExtendedKeyManager.html) | Abstract class that provides for extension of the X509KeyManager interface. |

| **Enum Summary** | |
| --- | --- |
| [**SSLEngineResult.HandshakeStatus**](http://docs.google.com/javax/net/ssl/SSLEngineResult.HandshakeStatus.html) | An SSLEngineResult enum describing the current handshaking state of this SSLEngine. |
| [**SSLEngineResult.Status**](http://docs.google.com/javax/net/ssl/SSLEngineResult.Status.html) | An SSLEngineResult enum describing the overall result of the SSLEngine operation. |

| **Exception Summary** | |
| --- | --- |
| [**SSLException**](http://docs.google.com/javax/net/ssl/SSLException.html) | Indicates some kind of error detected by an SSL subsystem. |
| [**SSLHandshakeException**](http://docs.google.com/javax/net/ssl/SSLHandshakeException.html) | Indicates that the client and server could not negotiate the desired level of security. |
| [**SSLKeyException**](http://docs.google.com/javax/net/ssl/SSLKeyException.html) | Reports a bad SSL key. |
| [**SSLPeerUnverifiedException**](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html) | Indicates that the peer's identity has not been verified. |
| [**SSLProtocolException**](http://docs.google.com/javax/net/ssl/SSLProtocolException.html) | Reports an error in the operation of the SSL protocol. |

## Package javax.net.ssl Description

Provides classes for the secure socket package. Using the secure socket classes, you can communicate using SSL or a related security protocol to reliably detect any errors introduced into the network byte stream and to optionally encrypt the data and/or authenticate the communicating peers.

**Since:** 1.4

| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.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 PACKAGE**](http://docs.google.com/javax/net/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/print/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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).