| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HandshakeCompletedEvent.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/CertPathTrustManagerParameters.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/HandshakeCompletedListener.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/HandshakeCompletedEvent.html)    [**NO FRAMES**](http://docs.google.com/HandshakeCompletedEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

## **javax.net.ssl**

Class HandshakeCompletedEvent

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

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public class **HandshakeCompletedEvent**extends [EventObject](http://docs.google.com/java/util/EventObject.html)

This event indicates that an SSL handshake completed on a given SSL connection. All of the core information about that handshake's result is captured through an "SSLSession" object. As a convenience, this event class provides direct access to some important session attributes.

The source of this event is the SSLSocket on which handshaking just completed.

**Since:** 1.4 **See Also:**[SSLSocket](http://docs.google.com/javax/net/ssl/SSLSocket.html), [HandshakeCompletedListener](http://docs.google.com/javax/net/ssl/HandshakeCompletedListener.html), [SSLSession](http://docs.google.com/javax/net/ssl/SSLSession.html), [Serialized Form](http://docs.google.com/serialized-form.html#javax.net.ssl.HandshakeCompletedEvent)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [source](http://docs.google.com/java/util/EventObject.html#source) |

| **Constructor Summary** | |
| --- | --- |
| [**HandshakeCompletedEvent**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#HandshakeCompletedEvent(javax.net.ssl.SSLSocket,%20javax.net.ssl.SSLSession))([SSLSocket](http://docs.google.com/javax/net/ssl/SSLSocket.html) sock, [SSLSession](http://docs.google.com/javax/net/ssl/SSLSession.html) s)            Constructs a new HandshakeCompletedEvent. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**getCipherSuite**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getCipherSuite())()            Returns the cipher suite in use by the session which was produced by the handshake. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | [**getLocalCertificates**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getLocalCertificates())()            Returns the certificate(s) that were sent to the peer during handshaking. |
| [Principal](http://docs.google.com/java/security/Principal.html) | [**getLocalPrincipal**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getLocalPrincipal())()            Returns the principal that was sent to the peer during handshaking. |
| [X509Certificate](http://docs.google.com/javax/security/cert/X509Certificate.html)[] | [**getPeerCertificateChain**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerCertificateChain())()            Returns the identity of the peer which was identified as part of defining the session. |
| [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | [**getPeerCertificates**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerCertificates())()            Returns the identity of the peer which was established as part of defining the session. |
| [Principal](http://docs.google.com/java/security/Principal.html) | [**getPeerPrincipal**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerPrincipal())()            Returns the identity of the peer which was established as part of defining the session. |
| [SSLSession](http://docs.google.com/javax/net/ssl/SSLSession.html) | [**getSession**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getSession())()            Returns the session that triggered this event. |
| [SSLSocket](http://docs.google.com/javax/net/ssl/SSLSocket.html) | [**getSocket**](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getSocket())()            Returns the socket which is the source of this event. |

| **Methods inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [getSource](http://docs.google.com/java/util/EventObject.html#getSource()), [toString](http://docs.google.com/java/util/EventObject.html#toString()) |

| **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()), [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** |
| --- |

### HandshakeCompletedEvent

public **HandshakeCompletedEvent**([SSLSocket](http://docs.google.com/javax/net/ssl/SSLSocket.html) sock,  
 [SSLSession](http://docs.google.com/javax/net/ssl/SSLSession.html) s)

Constructs a new HandshakeCompletedEvent.

**Parameters:**sock - the SSLSocket acting as the source of the events - the SSLSession this event is associated with

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

### getSession

public [SSLSession](http://docs.google.com/javax/net/ssl/SSLSession.html) **getSession**()

Returns the session that triggered this event.

**Returns:**the SSLSession for this handshake

### getCipherSuite

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

Returns the cipher suite in use by the session which was produced by the handshake. (This is a convenience method for getting the ciphersuite from the SSLsession.)

**Returns:**the name of the cipher suite negotiated during this session.

### getLocalCertificates

public [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] **getLocalCertificates**()

Returns the certificate(s) that were sent to the peer during handshaking. Note: This method is useful only when using certificate-based cipher suites. When multiple certificates are available for use in a handshake, the implementation chooses what it considers the "best" certificate chain available, and transmits that to the other side. This method allows the caller to know which certificate chain was actually used.

**Returns:**an ordered array of certificates, with the local certificate first followed by any certificate authorities. If no certificates were sent, then null is returned.**See Also:**[getLocalPrincipal()](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getLocalPrincipal())

### getPeerCertificates

public [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] **getPeerCertificates**()  
 throws [SSLPeerUnverifiedException](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html)

Returns the identity of the peer which was established as part of defining the session. Note: This method can be used only when using certificate-based cipher suites; using it with non-certificate-based cipher suites, such as Kerberos, will throw an SSLPeerUnverifiedException.

**Returns:**an ordered array of the peer certificates, with the peer's own certificate first followed by any certificate authorities. **Throws:** [SSLPeerUnverifiedException](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html) - if the peer is not verified.**See Also:**[getPeerPrincipal()](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerPrincipal())

### getPeerCertificateChain

public [X509Certificate](http://docs.google.com/javax/security/cert/X509Certificate.html)[] **getPeerCertificateChain**()  
 throws [SSLPeerUnverifiedException](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html)

Returns the identity of the peer which was identified as part of defining the session. Note: This method can be used only when using certificate-based cipher suites; using it with non-certificate-based cipher suites, such as Kerberos, will throw an SSLPeerUnverifiedException.

*Note: this method exists for compatibility with previous releases. New applications should use* [*getPeerCertificates()*](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerCertificates()) *instead.*

**Returns:**an ordered array of peer X.509 certificates, with the peer's own certificate first followed by any certificate authorities. (The certificates are in the original JSSE [X509Certificate](http://docs.google.com/javax/security/cert/X509Certificate.html) format). **Throws:** [SSLPeerUnverifiedException](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html) - if the peer is not verified.**See Also:**[getPeerPrincipal()](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerPrincipal())

### getPeerPrincipal

public [Principal](http://docs.google.com/java/security/Principal.html) **getPeerPrincipal**()  
 throws [SSLPeerUnverifiedException](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html)

Returns the identity of the peer which was established as part of defining the session.

**Returns:**the peer's principal. Returns an X500Principal of the end-entity certiticate for X509-based cipher suites, and KerberosPrincipal for Kerberos cipher suites. **Throws:** [SSLPeerUnverifiedException](http://docs.google.com/javax/net/ssl/SSLPeerUnverifiedException.html) - if the peer's identity has not been verified**Since:** 1.5 **See Also:**[getPeerCertificates()](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerCertificates()), [getLocalPrincipal()](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getLocalPrincipal())

### getLocalPrincipal

public [Principal](http://docs.google.com/java/security/Principal.html) **getLocalPrincipal**()

Returns the principal that was sent to the peer during handshaking.

**Returns:**the principal sent to the peer. Returns an X500Principal of the end-entity certificate for X509-based cipher suites, and KerberosPrincipal for Kerberos cipher suites. If no principal was sent, then null is returned.**Since:** 1.5 **See Also:**[getLocalCertificates()](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getLocalCertificates()), [getPeerPrincipal()](http://docs.google.com/javax/net/ssl/HandshakeCompletedEvent.html#getPeerPrincipal())

### getSocket

public [SSLSocket](http://docs.google.com/javax/net/ssl/SSLSocket.html) **getSocket**()

Returns the socket which is the source of this event. (This is a convenience function, to let applications write code without type casts.)

**Returns:**the socket on which the connection was made.

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