| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HttpsURLConnection.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/HostnameVerifier.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/KeyManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/HttpsURLConnection.html)    [**NO FRAMES**](http://docs.google.com/HttpsURLConnection.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#lnxbz9) | [METHOD](#1ksv4uv) |

## **javax.net.ssl**

Class HttpsURLConnection

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

public abstract class **HttpsURLConnection**extends [HttpURLConnection](http://docs.google.com/java/net/HttpURLConnection.html)

HttpsURLConnection extends HttpURLConnection with support for https-specific features.

See <http://www.w3.org/pub/WWW/Protocols/> and  [RFC 2818](http://www.ietf.org/)  for more details on the https specification.

This class uses HostnameVerifier and SSLSocketFactory. There are default implementations defined for both classes. However, the implementations can be replaced on a per-class (static) or per-instance basis. All new HttpsURLConnections instances will be assigned the "default" static values at instance creation, but they can be overriden by calling the appropriate per-instance set method(s) before connecting.

**Since:** 1.4

| **Field Summary** | |
| --- | --- |
| protected  [HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) | [**hostnameVerifier**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#hostnameVerifier)            The hostnameVerifier for this object. |

| **Fields inherited from class java.net.**[**HttpURLConnection**](http://docs.google.com/java/net/HttpURLConnection.html) |
| --- |
| [chunkLength](http://docs.google.com/java/net/HttpURLConnection.html#chunkLength), [fixedContentLength](http://docs.google.com/java/net/HttpURLConnection.html#fixedContentLength), [HTTP\_ACCEPTED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_ACCEPTED), [HTTP\_BAD\_GATEWAY](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_BAD_GATEWAY), [HTTP\_BAD\_METHOD](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_BAD_METHOD), [HTTP\_BAD\_REQUEST](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_BAD_REQUEST), [HTTP\_CLIENT\_TIMEOUT](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_CLIENT_TIMEOUT), [HTTP\_CONFLICT](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_CONFLICT), [HTTP\_CREATED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_CREATED), [HTTP\_ENTITY\_TOO\_LARGE](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_ENTITY_TOO_LARGE), [HTTP\_FORBIDDEN](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_FORBIDDEN), [HTTP\_GATEWAY\_TIMEOUT](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_GATEWAY_TIMEOUT), [HTTP\_GONE](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_GONE), [HTTP\_INTERNAL\_ERROR](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_INTERNAL_ERROR), [HTTP\_LENGTH\_REQUIRED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_LENGTH_REQUIRED), [HTTP\_MOVED\_PERM](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_MOVED_PERM), [HTTP\_MOVED\_TEMP](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_MOVED_TEMP), [HTTP\_MULT\_CHOICE](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_MULT_CHOICE), [HTTP\_NO\_CONTENT](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NO_CONTENT), [HTTP\_NOT\_ACCEPTABLE](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_ACCEPTABLE), [HTTP\_NOT\_AUTHORITATIVE](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_AUTHORITATIVE), [HTTP\_NOT\_FOUND](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_FOUND), [HTTP\_NOT\_IMPLEMENTED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_IMPLEMENTED), [HTTP\_NOT\_MODIFIED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_NOT_MODIFIED), [HTTP\_OK](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_OK), [HTTP\_PARTIAL](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PARTIAL), [HTTP\_PAYMENT\_REQUIRED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PAYMENT_REQUIRED), [HTTP\_PRECON\_FAILED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PRECON_FAILED), [HTTP\_PROXY\_AUTH](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_PROXY_AUTH), [HTTP\_REQ\_TOO\_LONG](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_REQ_TOO_LONG), [HTTP\_RESET](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_RESET), [HTTP\_SEE\_OTHER](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_SEE_OTHER), [HTTP\_SERVER\_ERROR](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_SERVER_ERROR), [HTTP\_UNAUTHORIZED](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_UNAUTHORIZED), [HTTP\_UNAVAILABLE](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_UNAVAILABLE), [HTTP\_UNSUPPORTED\_TYPE](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_UNSUPPORTED_TYPE), [HTTP\_USE\_PROXY](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_USE_PROXY), [HTTP\_VERSION](http://docs.google.com/java/net/HttpURLConnection.html#HTTP_VERSION), [instanceFollowRedirects](http://docs.google.com/java/net/HttpURLConnection.html#instanceFollowRedirects), [method](http://docs.google.com/java/net/HttpURLConnection.html#method), [responseCode](http://docs.google.com/java/net/HttpURLConnection.html#responseCode), [responseMessage](http://docs.google.com/java/net/HttpURLConnection.html#responseMessage) |

| **Fields inherited from class java.net.**[**URLConnection**](http://docs.google.com/java/net/URLConnection.html) |
| --- |
| [allowUserInteraction](http://docs.google.com/java/net/URLConnection.html#allowUserInteraction), [connected](http://docs.google.com/java/net/URLConnection.html#connected), [doInput](http://docs.google.com/java/net/URLConnection.html#doInput), [doOutput](http://docs.google.com/java/net/URLConnection.html#doOutput), [ifModifiedSince](http://docs.google.com/java/net/URLConnection.html#ifModifiedSince), [url](http://docs.google.com/java/net/URLConnection.html#url), [useCaches](http://docs.google.com/java/net/URLConnection.html#useCaches) |

| **Constructor Summary** | |
| --- | --- |
| protected | [**HttpsURLConnection**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#HttpsURLConnection(java.net.URL))([URL](http://docs.google.com/java/net/URL.html) url)            Creates an HttpsURLConnection using the URL specified. |

| **Method Summary** | |
| --- | --- |
| abstract  [String](http://docs.google.com/java/lang/String.html) | [**getCipherSuite**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getCipherSuite())()            Returns the cipher suite in use on this connection. |
| static [HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) | [**getDefaultHostnameVerifier**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getDefaultHostnameVerifier())()            Gets the default HostnameVerifier that is inherited by new instances of this class. |
| static [SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) | [**getDefaultSSLSocketFactory**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getDefaultSSLSocketFactory())()            Gets the default static SSLSocketFactory that is inherited by new instances of this class. |
| [HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) | [**getHostnameVerifier**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getHostnameVerifier())()            Gets the HostnameVerifier in place on this instance. |
| abstract  [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | [**getLocalCertificates**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getLocalCertificates())()            Returns the certificate(s) that were sent to the server during handshaking. |
| [Principal](http://docs.google.com/java/security/Principal.html) | [**getLocalPrincipal**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getLocalPrincipal())()            Returns the principal that was sent to the server during handshaking. |
| [Principal](http://docs.google.com/java/security/Principal.html) | [**getPeerPrincipal**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getPeerPrincipal())()            Returns the server's principal which was established as part of defining the session. |
| abstract  [Certificate](http://docs.google.com/java/security/cert/Certificate.html)[] | [**getServerCertificates**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getServerCertificates())()            Returns the server's certificate chain which was established as part of defining the session. |
| [SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) | [**getSSLSocketFactory**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getSSLSocketFactory())()            Gets the SSL socket factory to be used when creating sockets for secure https URL connections. |
| static void | [**setDefaultHostnameVerifier**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultHostnameVerifier(javax.net.ssl.HostnameVerifier))([HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) v)            Sets the default HostnameVerifier inherited by a new instance of this class. |
| static void | [**setDefaultSSLSocketFactory**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultSSLSocketFactory(javax.net.ssl.SSLSocketFactory))([SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) sf)            Sets the default SSLSocketFactory inherited by new instances of this class. |
| void | [**setHostnameVerifier**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setHostnameVerifier(javax.net.ssl.HostnameVerifier))([HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) v)            Sets the HostnameVerifier for this instance. |
| void | [**setSSLSocketFactory**](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setSSLSocketFactory(javax.net.ssl.SSLSocketFactory))([SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) sf)            Sets the SSLSocketFactory to be used when this instance creates sockets for secure https URL connections. |

| **Methods inherited from class java.net.**[**HttpURLConnection**](http://docs.google.com/java/net/HttpURLConnection.html) |
| --- |
| [disconnect](http://docs.google.com/java/net/HttpURLConnection.html#disconnect()), [getErrorStream](http://docs.google.com/java/net/HttpURLConnection.html#getErrorStream()), [getFollowRedirects](http://docs.google.com/java/net/HttpURLConnection.html#getFollowRedirects()), [getHeaderField](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderField(int)), [getHeaderFieldDate](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderFieldDate(java.lang.String,%20long)), [getHeaderFieldKey](http://docs.google.com/java/net/HttpURLConnection.html#getHeaderFieldKey(int)), [getInstanceFollowRedirects](http://docs.google.com/java/net/HttpURLConnection.html#getInstanceFollowRedirects()), [getPermission](http://docs.google.com/java/net/HttpURLConnection.html#getPermission()), [getRequestMethod](http://docs.google.com/java/net/HttpURLConnection.html#getRequestMethod()), [getResponseCode](http://docs.google.com/java/net/HttpURLConnection.html#getResponseCode()), [getResponseMessage](http://docs.google.com/java/net/HttpURLConnection.html#getResponseMessage()), [setChunkedStreamingMode](http://docs.google.com/java/net/HttpURLConnection.html#setChunkedStreamingMode(int)), [setFixedLengthStreamingMode](http://docs.google.com/java/net/HttpURLConnection.html#setFixedLengthStreamingMode(int)), [setFollowRedirects](http://docs.google.com/java/net/HttpURLConnection.html#setFollowRedirects(boolean)), [setInstanceFollowRedirects](http://docs.google.com/java/net/HttpURLConnection.html#setInstanceFollowRedirects(boolean)), [setRequestMethod](http://docs.google.com/java/net/HttpURLConnection.html#setRequestMethod(java.lang.String)), [usingProxy](http://docs.google.com/java/net/HttpURLConnection.html#usingProxy()) |

| **Methods inherited from class java.net.**[**URLConnection**](http://docs.google.com/java/net/URLConnection.html) |
| --- |
| [addRequestProperty](http://docs.google.com/java/net/URLConnection.html#addRequestProperty(java.lang.String,%20java.lang.String)), [connect](http://docs.google.com/java/net/URLConnection.html#connect()), [getAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#getAllowUserInteraction()), [getConnectTimeout](http://docs.google.com/java/net/URLConnection.html#getConnectTimeout()), [getContent](http://docs.google.com/java/net/URLConnection.html#getContent()), [getContent](http://docs.google.com/java/net/URLConnection.html#getContent(java.lang.Class%5B%5D)), [getContentEncoding](http://docs.google.com/java/net/URLConnection.html#getContentEncoding()), [getContentLength](http://docs.google.com/java/net/URLConnection.html#getContentLength()), [getContentType](http://docs.google.com/java/net/URLConnection.html#getContentType()), [getDate](http://docs.google.com/java/net/URLConnection.html#getDate()), [getDefaultAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#getDefaultAllowUserInteraction()), [getDefaultRequestProperty](http://docs.google.com/java/net/URLConnection.html#getDefaultRequestProperty(java.lang.String)), [getDefaultUseCaches](http://docs.google.com/java/net/URLConnection.html#getDefaultUseCaches()), [getDoInput](http://docs.google.com/java/net/URLConnection.html#getDoInput()), [getDoOutput](http://docs.google.com/java/net/URLConnection.html#getDoOutput()), [getExpiration](http://docs.google.com/java/net/URLConnection.html#getExpiration()), [getFileNameMap](http://docs.google.com/java/net/URLConnection.html#getFileNameMap()), [getHeaderField](http://docs.google.com/java/net/URLConnection.html#getHeaderField(java.lang.String)), [getHeaderFieldInt](http://docs.google.com/java/net/URLConnection.html#getHeaderFieldInt(java.lang.String,%20int)), [getHeaderFields](http://docs.google.com/java/net/URLConnection.html#getHeaderFields()), [getIfModifiedSince](http://docs.google.com/java/net/URLConnection.html#getIfModifiedSince()), [getInputStream](http://docs.google.com/java/net/URLConnection.html#getInputStream()), [getLastModified](http://docs.google.com/java/net/URLConnection.html#getLastModified()), [getOutputStream](http://docs.google.com/java/net/URLConnection.html#getOutputStream()), [getReadTimeout](http://docs.google.com/java/net/URLConnection.html#getReadTimeout()), [getRequestProperties](http://docs.google.com/java/net/URLConnection.html#getRequestProperties()), [getRequestProperty](http://docs.google.com/java/net/URLConnection.html#getRequestProperty(java.lang.String)), [getURL](http://docs.google.com/java/net/URLConnection.html#getURL()), [getUseCaches](http://docs.google.com/java/net/URLConnection.html#getUseCaches()), [guessContentTypeFromName](http://docs.google.com/java/net/URLConnection.html#guessContentTypeFromName(java.lang.String)), [guessContentTypeFromStream](http://docs.google.com/java/net/URLConnection.html#guessContentTypeFromStream(java.io.InputStream)), [setAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#setAllowUserInteraction(boolean)), [setConnectTimeout](http://docs.google.com/java/net/URLConnection.html#setConnectTimeout(int)), [setContentHandlerFactory](http://docs.google.com/java/net/URLConnection.html#setContentHandlerFactory(java.net.ContentHandlerFactory)), [setDefaultAllowUserInteraction](http://docs.google.com/java/net/URLConnection.html#setDefaultAllowUserInteraction(boolean)), [setDefaultRequestProperty](http://docs.google.com/java/net/URLConnection.html#setDefaultRequestProperty(java.lang.String,%20java.lang.String)), [setDefaultUseCaches](http://docs.google.com/java/net/URLConnection.html#setDefaultUseCaches(boolean)), [setDoInput](http://docs.google.com/java/net/URLConnection.html#setDoInput(boolean)), [setDoOutput](http://docs.google.com/java/net/URLConnection.html#setDoOutput(boolean)), [setFileNameMap](http://docs.google.com/java/net/URLConnection.html#setFileNameMap(java.net.FileNameMap)), [setIfModifiedSince](http://docs.google.com/java/net/URLConnection.html#setIfModifiedSince(long)), [setReadTimeout](http://docs.google.com/java/net/URLConnection.html#setReadTimeout(int)), [setRequestProperty](http://docs.google.com/java/net/URLConnection.html#setRequestProperty(java.lang.String,%20java.lang.String)), [setUseCaches](http://docs.google.com/java/net/URLConnection.html#setUseCaches(boolean)), [toString](http://docs.google.com/java/net/URLConnection.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)) |

| **Field Detail** |
| --- |

### hostnameVerifier

protected [HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) **hostnameVerifier**

The hostnameVerifier for this object.

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

### HttpsURLConnection

protected **HttpsURLConnection**([URL](http://docs.google.com/java/net/URL.html) url)

Creates an HttpsURLConnection using the URL specified.

**Parameters:**url - the URL

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

### getCipherSuite

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

Returns the cipher suite in use on this connection.

**Returns:**the cipher suite **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this method is called before the connection has been established.

### getLocalCertificates

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

Returns the certificate(s) that were sent to the server 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 sent.

**Returns:**an ordered array of certificates, with the client's own certificate first followed by any certificate authorities. If no certificates were sent, then null is returned. **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this method is called before the connection has been established.**See Also:**[getLocalPrincipal()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getLocalPrincipal())

### getServerCertificates

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

Returns the server's certificate chain 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 server 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. [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this method is called before the connection has been established.**See Also:**[getPeerPrincipal()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.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 server's principal which was established as part of defining the session.

Note: Subclasses should override this method. If not overridden, it will default to returning the X500Principal of the server's end-entity certificate for certificate-based ciphersuites, or throw an SSLPeerUnverifiedException for non-certificate based ciphersuites, such as Kerberos.

**Returns:**the server'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 was not verified [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this method is called before the connection has been established.**Since:** 1.5 **See Also:**[getServerCertificates()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getServerCertificates()), [getLocalPrincipal()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getLocalPrincipal())

### getLocalPrincipal

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

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

Note: Subclasses should override this method. If not overridden, it will default to returning the X500Principal of the end-entity certificate that was sent to the server for certificate-based ciphersuites or, return null for non-certificate based ciphersuites, such as Kerberos.

**Returns:**the principal sent to the server. 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. **Throws:** [IllegalStateException](http://docs.google.com/java/lang/IllegalStateException.html) - if this method is called before the connection has been established.**Since:** 1.5 **See Also:**[getLocalCertificates()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getLocalCertificates()), [getPeerPrincipal()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getPeerPrincipal())

### setDefaultHostnameVerifier

public static void **setDefaultHostnameVerifier**([HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) v)

Sets the default HostnameVerifier inherited by a new instance of this class.

If this method is not called, the default HostnameVerifier assumes the connection should not be permitted.

**Parameters:**v - the default host name verifier **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the HostnameVerifier parameter is null. [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and its checkPermission method does not allow SSLPermission("setHostnameVerifier")**See Also:**[getDefaultHostnameVerifier()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getDefaultHostnameVerifier())

### getDefaultHostnameVerifier

public static [HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) **getDefaultHostnameVerifier**()

Gets the default HostnameVerifier that is inherited by new instances of this class.

**Returns:**the default host name verifier**See Also:**[setDefaultHostnameVerifier(HostnameVerifier)](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultHostnameVerifier(javax.net.ssl.HostnameVerifier))

### setHostnameVerifier

public void **setHostnameVerifier**([HostnameVerifier](http://docs.google.com/javax/net/ssl/HostnameVerifier.html) v)

Sets the HostnameVerifier for this instance.

New instances of this class inherit the default static hostname verifier set by [setDefaultHostnameVerifier](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultHostnameVerifier(javax.net.ssl.HostnameVerifier)). Calls to this method replace this object's HostnameVerifier.

**Parameters:**v - the host name verifier **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the HostnameVerifier parameter is null.**See Also:**[getHostnameVerifier()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getHostnameVerifier()), [setDefaultHostnameVerifier(HostnameVerifier)](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultHostnameVerifier(javax.net.ssl.HostnameVerifier))

### getHostnameVerifier

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

Gets the HostnameVerifier in place on this instance.

**Returns:**the host name verifier**See Also:**[setHostnameVerifier(HostnameVerifier)](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setHostnameVerifier(javax.net.ssl.HostnameVerifier)), [setDefaultHostnameVerifier(HostnameVerifier)](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultHostnameVerifier(javax.net.ssl.HostnameVerifier))

### setDefaultSSLSocketFactory

public static void **setDefaultSSLSocketFactory**([SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) sf)

Sets the default SSLSocketFactory inherited by new instances of this class.

The socket factories are used when creating sockets for secure https URL connections.

**Parameters:**sf - the default SSL socket factory **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the SSLSocketFactory parameter is null. [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and its checkSetFactory method does not allow a socket factory to be specified.**See Also:**[getDefaultSSLSocketFactory()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getDefaultSSLSocketFactory())

### getDefaultSSLSocketFactory

public static [SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) **getDefaultSSLSocketFactory**()

Gets the default static SSLSocketFactory that is inherited by new instances of this class.

The socket factories are used when creating sockets for secure https URL connections.

**Returns:**the default SSLSocketFactory**See Also:**[setDefaultSSLSocketFactory(SSLSocketFactory)](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultSSLSocketFactory(javax.net.ssl.SSLSocketFactory))

### setSSLSocketFactory

public void **setSSLSocketFactory**([SSLSocketFactory](http://docs.google.com/javax/net/ssl/SSLSocketFactory.html) sf)

Sets the SSLSocketFactory to be used when this instance creates sockets for secure https URL connections.

New instances of this class inherit the default static SSLSocketFactory set by [setDefaultSSLSocketFactory](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setDefaultSSLSocketFactory(javax.net.ssl.SSLSocketFactory)). Calls to this method replace this object's SSLSocketFactory.

**Parameters:**sf - the SSL socket factory **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if the SSLSocketFactory parameter is null.**See Also:**[getSSLSocketFactory()](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#getSSLSocketFactory())

### getSSLSocketFactory

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

Gets the SSL socket factory to be used when creating sockets for secure https URL connections.

**Returns:**the SSLSocketFactory**See Also:**[setSSLSocketFactory(SSLSocketFactory)](http://docs.google.com/javax/net/ssl/HttpsURLConnection.html#setSSLSocketFactory(javax.net.ssl.SSLSocketFactory))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/HttpsURLConnection.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/HostnameVerifier.html)   [**NEXT CLASS**](http://docs.google.com/javax/net/ssl/KeyManager.html) | [**FRAMES**](http://docs.google.com/index.html?javax/net/ssl/HttpsURLConnection.html)    [**NO FRAMES**](http://docs.google.com/HttpsURLConnection.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#1t3h5sf) | DETAIL: [FIELD](#3rdcrjn) | [CONSTR](#lnxbz9) | [METHOD](#1ksv4uv) |

[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).