| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CookieManager.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/java/net/CookieHandler.html)   [**NEXT CLASS**](http://docs.google.com/java/net/CookiePolicy.html) | [**FRAMES**](http://docs.google.com/index.html?java/net/CookieManager.html)    [**NO FRAMES**](http://docs.google.com/CookieManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

## **java.net**

Class CookieManager

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.net.CookieHandler](http://docs.google.com/java/net/CookieHandler.html)  
 **java.net.CookieManager**

public class **CookieManager**extends [CookieHandler](http://docs.google.com/java/net/CookieHandler.html)

CookieManager provides a concrete implementation of [CookieHandler](http://docs.google.com/java/net/CookieHandler.html), which separates the storage of cookies from the policy surrounding accepting and rejecting cookies. A CookieManager is initialized with a [CookieStore](http://docs.google.com/java/net/CookieStore.html) which manages storage, and a [CookiePolicy](http://docs.google.com/java/net/CookiePolicy.html) object, which makes policy decisions on cookie acceptance/rejection.

The HTTP cookie management in java.net package looks like:

use  
 CookieHandler <------- HttpURLConnection  
 ^  
 | impl  
 | use  
 CookieManager -------> CookiePolicy  
 | use  
 |--------> HttpCookie  
 | ^  
 | | use  
 | use |  
 |--------> CookieStore  
 ^  
 | impl  
 |  
 Internal in-memory implementation

* CookieHandler is at the core of cookie management. User can call CookieHandler.setDefault to set a concrete CookieHanlder implementation to be used.
* CookiePolicy.shouldAccept will be called by CookieManager.put to see whether or not one cookie should be accepted and put into cookie store. User can use any of three pre-defined CookiePolicy, namely ACCEPT\_ALL, ACCEPT\_NONE and ACCEPT\_ORIGINAL\_SERVER, or user can define his own CookiePolicy implementation and tell CookieManager to use it.
* CookieStore is the place where any accepted HTTP cookie is stored in. If not specified when created, a CookieManager instance will use an internal in-memory implementation. Or user can implements one and tell CookieManager to use it.
* Currently, only CookieStore.add(URI, HttpCookie) and CookieStore.get(URI) are used by CookieManager. Others are for completeness and might be needed by a more sophisticated CookieStore implementation, e.g. a NetscapeCookieSotre.

There're various ways user can hook up his own HTTP cookie management behavior, e.g.

* Use CookieHandler.setDefault to set a brand new [CookieHandler](http://docs.google.com/java/net/CookieHandler.html) implementation
* Let CookieManager be the default [CookieHandler](http://docs.google.com/java/net/CookieHandler.html) implementation, but implement user's own [CookieStore](http://docs.google.com/java/net/CookieStore.html) and [CookiePolicy](http://docs.google.com/java/net/CookiePolicy.html) and tell default CookieManager to use them: // this should be done at the beginning of an HTTP session  
   CookieHandler.setDefault(new CookieManager(new MyCookieStore(), new MyCookiePolicy()));
* Let CookieManager be the default [CookieHandler](http://docs.google.com/java/net/CookieHandler.html) implementation, but use customized [CookiePolicy](http://docs.google.com/java/net/CookiePolicy.html): // this should be done at the beginning of an HTTP session  
   CookieHandler.setDefault(new CookieManager());  
   // this can be done at any point of an HTTP session  
   ((CookieManager)CookieHandler.getDefault()).setCookiePolicy(new MyCookiePolicy());

The implementation conforms to RFC 2965, section 3.3.

**Since:** 1.6

| **Constructor Summary** | |
| --- | --- |
| [**CookieManager**](http://docs.google.com/java/net/CookieManager.html#CookieManager())()            Create a new cookie manager. |
| [**CookieManager**](http://docs.google.com/java/net/CookieManager.html#CookieManager(java.net.CookieStore,%20java.net.CookiePolicy))([CookieStore](http://docs.google.com/java/net/CookieStore.html) store, [CookiePolicy](http://docs.google.com/java/net/CookiePolicy.html) cookiePolicy)            Create a new cookie manager with specified cookie store and cookie policy. |

| **Method Summary** | |
| --- | --- |
| [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> | [**get**](http://docs.google.com/java/net/CookieManager.html#get(java.net.URI,%20java.util.Map))([URI](http://docs.google.com/java/net/URI.html) uri, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> requestHeaders)            Gets all the applicable cookies from a cookie cache for the specified uri in the request header. |
| [CookieStore](http://docs.google.com/java/net/CookieStore.html) | [**getCookieStore**](http://docs.google.com/java/net/CookieManager.html#getCookieStore())()            To retrieve current cookie store. |
| void | [**put**](http://docs.google.com/java/net/CookieManager.html#put(java.net.URI,%20java.util.Map))([URI](http://docs.google.com/java/net/URI.html) uri, [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> responseHeaders)            Sets all the applicable cookies, examples are response header fields that are named Set-Cookie2, present in the response headers into a cookie cache. |
| void | [**setCookiePolicy**](http://docs.google.com/java/net/CookieManager.html#setCookiePolicy(java.net.CookiePolicy))([CookiePolicy](http://docs.google.com/java/net/CookiePolicy.html) cookiePolicy)            To set the cookie policy of this cookie manager. |

| **Methods inherited from class java.net.**[**CookieHandler**](http://docs.google.com/java/net/CookieHandler.html) |
| --- |
| [getDefault](http://docs.google.com/java/net/CookieHandler.html#getDefault()), [setDefault](http://docs.google.com/java/net/CookieHandler.html#setDefault(java.net.CookieHandler)) |

| **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** |
| --- |

### CookieManager

public **CookieManager**()

Create a new cookie manager.

This constructor will create new cookie manager with default cookie store and accept policy. The effect is same as CookieManager(null, null).

### CookieManager

public **CookieManager**([CookieStore](http://docs.google.com/java/net/CookieStore.html) store,  
 [CookiePolicy](http://docs.google.com/java/net/CookiePolicy.html) cookiePolicy)

Create a new cookie manager with specified cookie store and cookie policy.

**Parameters:**store - a CookieStore to be used by cookie manager. if null, cookie manager will use a default one, which is an in-memory CookieStore implmentation.cookiePolicy - a CookiePolicy instance to be used by cookie manager as policy callback. if null, ACCEPT\_ORIGINAL\_SERVER will be used.

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

### setCookiePolicy

public void **setCookiePolicy**([CookiePolicy](http://docs.google.com/java/net/CookiePolicy.html) cookiePolicy)

To set the cookie policy of this cookie manager.

A instance of CookieManager will have cookie policy ACCEPT\_ORIGINAL\_SERVER by default. Users always can call this method to set another cookie policy.

**Parameters:**cookiePolicy - the cookie policy. Can be null, which has no effects on current cookie policy.

### getCookieStore

public [CookieStore](http://docs.google.com/java/net/CookieStore.html) **getCookieStore**()

To retrieve current cookie store.

**Returns:**the cookie store currently used by cookie manager.

### get

public [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> **get**([URI](http://docs.google.com/java/net/URI.html) uri,  
 [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> requestHeaders)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from class:** [**CookieHandler**](http://docs.google.com/java/net/CookieHandler.html#get(java.net.URI,%20java.util.Map)) Gets all the applicable cookies from a cookie cache for the specified uri in the request header. HTTP protocol implementers should make sure that this method is called after all request headers related to choosing cookies are added, and before the request is sent.

**Specified by:**[get](http://docs.google.com/java/net/CookieHandler.html#get(java.net.URI,%20java.util.Map)) in class [CookieHandler](http://docs.google.com/java/net/CookieHandler.html) **Parameters:**uri - a URI to send cookies to in a requestrequestHeaders - - a Map from request header field names to lists of field values representing the current request headers **Returns:**an immutable map from state management headers, with field names "Cookie" or "Cookie2" to a list of cookies containing state information **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs**See Also:**[CookieHandler.put(URI, Map)](http://docs.google.com/java/net/CookieHandler.html#put(java.net.URI,%20java.util.Map))

### put

public void **put**([URI](http://docs.google.com/java/net/URI.html) uri,  
 [Map](http://docs.google.com/java/util/Map.html)<[String](http://docs.google.com/java/lang/String.html),[List](http://docs.google.com/java/util/List.html)<[String](http://docs.google.com/java/lang/String.html)>> responseHeaders)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

**Description copied from class:** [**CookieHandler**](http://docs.google.com/java/net/CookieHandler.html#put(java.net.URI,%20java.util.Map)) Sets all the applicable cookies, examples are response header fields that are named Set-Cookie2, present in the response headers into a cookie cache.

**Specified by:**[put](http://docs.google.com/java/net/CookieHandler.html#put(java.net.URI,%20java.util.Map)) in class [CookieHandler](http://docs.google.com/java/net/CookieHandler.html) **Parameters:**uri - a URI where the cookies come fromresponseHeaders - an immutable map from field names to lists of field values representing the response header fields returned **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if an I/O error occurs**See Also:**[CookieHandler.get(URI, Map)](http://docs.google.com/java/net/CookieHandler.html#get(java.net.URI,%20java.util.Map))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CookieManager.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/java/net/CookieHandler.html)   [**NEXT CLASS**](http://docs.google.com/java/net/CookiePolicy.html) | [**FRAMES**](http://docs.google.com/index.html?java/net/CookieManager.html)    [**NO FRAMES**](http://docs.google.com/CookieManager.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

[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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