| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Proxy.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/ProtocolException.html)   [**NEXT CLASS**](http://docs.google.com/java/net/Proxy.Type.html) | [**FRAMES**](http://docs.google.com/index.html?java/net/Proxy.html)    [**NO FRAMES**](http://docs.google.com/Proxy.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

## **java.net**

Class Proxy

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

public class **Proxy**extends [Object](http://docs.google.com/java/lang/Object.html)

This class represents a proxy setting, typically a type (http, socks) and a socket address. A Proxy is an immutable object.

**Since:** 1.5 **See Also:**[ProxySelector](http://docs.google.com/java/net/ProxySelector.html)

| **Nested Class Summary** | |
| --- | --- |
| static class | [**Proxy.Type**](http://docs.google.com/java/net/Proxy.Type.html)            Represents the proxy type. |

| **Field Summary** | |
| --- | --- |
| static [Proxy](http://docs.google.com/java/net/Proxy.html) | [**NO\_PROXY**](http://docs.google.com/java/net/Proxy.html#NO_PROXY)            A proxy setting that represents a DIRECT connection, basically telling the protocol handler not to use any proxying. |

| **Constructor Summary** | |
| --- | --- |
| [**Proxy**](http://docs.google.com/java/net/Proxy.html#Proxy(java.net.Proxy.Type,%20java.net.SocketAddress))([Proxy.Type](http://docs.google.com/java/net/Proxy.Type.html) type, [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) sa)            Creates an entry representing a PROXY connection. |

| **Method Summary** | |
| --- | --- |
| [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) | [**address**](http://docs.google.com/java/net/Proxy.html#address())()            Returns the socket address of the proxy, or null if its a direct connection. |
| boolean | [**equals**](http://docs.google.com/java/net/Proxy.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Compares this object against the specified object. |
| int | [**hashCode**](http://docs.google.com/java/net/Proxy.html#hashCode())()            Returns a hashcode for this Proxy. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/net/Proxy.html#toString())()            Constructs a string representation of this Proxy. |
| [Proxy.Type](http://docs.google.com/java/net/Proxy.Type.html) | [**type**](http://docs.google.com/java/net/Proxy.html#type())()            Returns the proxy type. |

| **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()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [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** |
| --- |

### NO\_PROXY

public static final [Proxy](http://docs.google.com/java/net/Proxy.html) **NO\_PROXY**

A proxy setting that represents a DIRECT connection, basically telling the protocol handler not to use any proxying. Used, for instance, to create sockets bypassing any other global proxy settings (like SOCKS):

Socket s = new Socket(Proxy.NO\_PROXY);

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

### Proxy

public **Proxy**([Proxy.Type](http://docs.google.com/java/net/Proxy.Type.html) type,  
 [SocketAddress](http://docs.google.com/java/net/SocketAddress.html) sa)

Creates an entry representing a PROXY connection. Certain combinations are illegal. For instance, for types Http, and Socks, a SocketAddress **must** be provided.

Use the Proxy.NO\_PROXY constant for representing a direct connection.

**Parameters:**type - the Type of the proxysa - the SocketAddress for that proxy **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - when the type and the address are incompatible

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

### type

public [Proxy.Type](http://docs.google.com/java/net/Proxy.Type.html) **type**()

Returns the proxy type.

**Returns:**a Type representing the proxy type

### address

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

Returns the socket address of the proxy, or null if its a direct connection.

**Returns:**a SocketAddress representing the socket end point of the proxy

### toString

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

Constructs a string representation of this Proxy. This String is constructed by calling toString() on its type and concatenating " @ " and the toString() result from its address if its type is not DIRECT.

**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of this object.

### equals

public final boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Compares this object against the specified object. The result is true if and only if the argument is not null and it represents the same proxy as this object.

Two instances of Proxy represent the same address if both the SocketAddresses and type are equal.

**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**obj - the object to compare against. **Returns:**true if the objects are the same; false otherwise.**See Also:**[InetSocketAddress.equals(java.lang.Object)](http://docs.google.com/java/net/InetSocketAddress.html#equals(java.lang.Object))

### hashCode

public final int **hashCode**()

Returns a hashcode for this Proxy.

**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hash code value for this Proxy.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Proxy.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/ProtocolException.html)   [**NEXT CLASS**](http://docs.google.com/java/net/Proxy.Type.html) | [**FRAMES**](http://docs.google.com/index.html?java/net/Proxy.html)    [**NO FRAMES**](http://docs.google.com/Proxy.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#17dp8vu) | [METHOD](#26in1rg) |

[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).