| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AuthProvider.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/security/AllPermission.html)   [**NEXT CLASS**](http://docs.google.com/java/security/BasicPermission.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/AuthProvider.html)    [**NO FRAMES**](http://docs.google.com/AuthProvider.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: FIELD | [CONSTR](#lnxbz9) | [METHOD](#1ksv4uv) |

## **java.security**

Class AuthProvider

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.Dictionary](http://docs.google.com/java/util/Dictionary.html)<K,V>  
 [java.util.Hashtable](http://docs.google.com/java/util/Hashtable.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>  
 [java.util.Properties](http://docs.google.com/java/util/Properties.html)  
 [java.security.Provider](http://docs.google.com/java/security/Provider.html)  
 **java.security.AuthProvider**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Cloneable](http://docs.google.com/java/lang/Cloneable.html), [Map](http://docs.google.com/java/util/Map.html)<[Object](http://docs.google.com/java/lang/Object.html),[Object](http://docs.google.com/java/lang/Object.html)>

public abstract class **AuthProvider**extends [Provider](http://docs.google.com/java/security/Provider.html)

This class defines login and logout methods for a provider.

While callers may invoke login directly, the provider may also invoke login on behalf of callers if it determines that a login must be performed prior to certain operations.

**Since:** 1.5 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.security.AuthProvider)

| **Nested Class Summary** | |
| --- | --- |

| **Nested classes/interfaces inherited from class java.security.**[**Provider**](http://docs.google.com/java/security/Provider.html) |
| --- |
| [Provider.Service](http://docs.google.com/java/security/Provider.Service.html) |

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

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

| **Constructor Summary** | |
| --- | --- |
| protected | [**AuthProvider**](http://docs.google.com/java/security/AuthProvider.html#AuthProvider(java.lang.String,%20double,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) name, double version, [String](http://docs.google.com/java/lang/String.html) info)            Constructs a provider with the specified name, version number, and information. |

| **Method Summary** | |
| --- | --- |
| abstract  void | [**login**](http://docs.google.com/java/security/AuthProvider.html#login(javax.security.auth.Subject,%20javax.security.auth.callback.CallbackHandler))([Subject](http://docs.google.com/javax/security/auth/Subject.html) subject, [CallbackHandler](http://docs.google.com/javax/security/auth/callback/CallbackHandler.html) handler)            Log in to this provider. |
| abstract  void | [**logout**](http://docs.google.com/java/security/AuthProvider.html#logout())()            Log out from this provider. |
| abstract  void | [**setCallbackHandler**](http://docs.google.com/java/security/AuthProvider.html#setCallbackHandler(javax.security.auth.callback.CallbackHandler))([CallbackHandler](http://docs.google.com/javax/security/auth/callback/CallbackHandler.html) handler)            Set a CallbackHandler. |

| **Methods inherited from class java.security.**[**Provider**](http://docs.google.com/java/security/Provider.html) |
| --- |
| [clear](http://docs.google.com/java/security/Provider.html#clear()), [elements](http://docs.google.com/java/security/Provider.html#elements()), [entrySet](http://docs.google.com/java/security/Provider.html#entrySet()), [get](http://docs.google.com/java/security/Provider.html#get(java.lang.Object)), [getInfo](http://docs.google.com/java/security/Provider.html#getInfo()), [getName](http://docs.google.com/java/security/Provider.html#getName()), [getProperty](http://docs.google.com/java/security/Provider.html#getProperty(java.lang.String)), [getService](http://docs.google.com/java/security/Provider.html#getService(java.lang.String,%20java.lang.String)), [getServices](http://docs.google.com/java/security/Provider.html#getServices()), [getVersion](http://docs.google.com/java/security/Provider.html#getVersion()), [keys](http://docs.google.com/java/security/Provider.html#keys()), [keySet](http://docs.google.com/java/security/Provider.html#keySet()), [load](http://docs.google.com/java/security/Provider.html#load(java.io.InputStream)), [put](http://docs.google.com/java/security/Provider.html#put(java.lang.Object,%20java.lang.Object)), [putAll](http://docs.google.com/java/security/Provider.html#putAll(java.util.Map)), [putService](http://docs.google.com/java/security/Provider.html#putService(java.security.Provider.Service)), [remove](http://docs.google.com/java/security/Provider.html#remove(java.lang.Object)), [removeService](http://docs.google.com/java/security/Provider.html#removeService(java.security.Provider.Service)), [toString](http://docs.google.com/java/security/Provider.html#toString()), [values](http://docs.google.com/java/security/Provider.html#values()) |

| **Methods inherited from class java.util.**[**Properties**](http://docs.google.com/java/util/Properties.html) |
| --- |
| [getProperty](http://docs.google.com/java/util/Properties.html#getProperty(java.lang.String,%20java.lang.String)), [list](http://docs.google.com/java/util/Properties.html#list(java.io.PrintStream)), [list](http://docs.google.com/java/util/Properties.html#list(java.io.PrintWriter)), [load](http://docs.google.com/java/util/Properties.html#load(java.io.Reader)), [loadFromXML](http://docs.google.com/java/util/Properties.html#loadFromXML(java.io.InputStream)), [propertyNames](http://docs.google.com/java/util/Properties.html#propertyNames()), [save](http://docs.google.com/java/util/Properties.html#save(java.io.OutputStream,%20java.lang.String)), [setProperty](http://docs.google.com/java/util/Properties.html#setProperty(java.lang.String,%20java.lang.String)), [store](http://docs.google.com/java/util/Properties.html#store(java.io.OutputStream,%20java.lang.String)), [store](http://docs.google.com/java/util/Properties.html#store(java.io.Writer,%20java.lang.String)), [storeToXML](http://docs.google.com/java/util/Properties.html#storeToXML(java.io.OutputStream,%20java.lang.String)), [storeToXML](http://docs.google.com/java/util/Properties.html#storeToXML(java.io.OutputStream,%20java.lang.String,%20java.lang.String)), [stringPropertyNames](http://docs.google.com/java/util/Properties.html#stringPropertyNames()) |

| **Methods inherited from class java.util.**[**Hashtable**](http://docs.google.com/java/util/Hashtable.html) |
| --- |
| [clone](http://docs.google.com/java/util/Hashtable.html#clone()), [contains](http://docs.google.com/java/util/Hashtable.html#contains(java.lang.Object)), [containsKey](http://docs.google.com/java/util/Hashtable.html#containsKey(java.lang.Object)), [containsValue](http://docs.google.com/java/util/Hashtable.html#containsValue(java.lang.Object)), [equals](http://docs.google.com/java/util/Hashtable.html#equals(java.lang.Object)), [hashCode](http://docs.google.com/java/util/Hashtable.html#hashCode()), [isEmpty](http://docs.google.com/java/util/Hashtable.html#isEmpty()), [rehash](http://docs.google.com/java/util/Hashtable.html#rehash()), [size](http://docs.google.com/java/util/Hashtable.html#size()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [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)) |

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

### AuthProvider

protected **AuthProvider**([String](http://docs.google.com/java/lang/String.html) name,  
 double version,  
 [String](http://docs.google.com/java/lang/String.html) info)

Constructs a provider with the specified name, version number, and information.

**Parameters:**name - the provider name.version - the provider version number.info - a description of the provider and its services.

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

### login

public abstract void **login**([Subject](http://docs.google.com/javax/security/auth/Subject.html) subject,  
 [CallbackHandler](http://docs.google.com/javax/security/auth/callback/CallbackHandler.html) handler)  
 throws [LoginException](http://docs.google.com/javax/security/auth/login/LoginException.html)

Log in to this provider.

The provider relies on a CallbackHandler to obtain authentication information from the caller (a PIN, for example). If the caller passes a null handler to this method, the provider uses the handler set in the setCallbackHandler method. If no handler was set in that method, the provider queries the *auth.login.defaultCallbackHandler* security property for the fully qualified class name of a default handler implementation. If the security property is not set, the provider is assumed to have alternative means for obtaining authentication information.

**Parameters:**subject - the Subject which may contain principals/credentials used for authentication, or may be populated with additional principals/credentials after successful authentication has completed. This parameter may be null.handler - the CallbackHandler used by this provider to obtain authentication information from the caller, which may be null **Throws:** [LoginException](http://docs.google.com/javax/security/auth/login/LoginException.html) - if the login operation fails [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if the caller does not pass a security check for SecurityPermission("authProvider.*name*"), where *name* is the value returned by this provider's getName method

### logout

public abstract void **logout**()  
 throws [LoginException](http://docs.google.com/javax/security/auth/login/LoginException.html)

Log out from this provider.

**Throws:** [LoginException](http://docs.google.com/javax/security/auth/login/LoginException.html) - if the logout operation fails [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if the caller does not pass a security check for SecurityPermission("authProvider.*name*"), where *name* is the value returned by this provider's getName method

### setCallbackHandler

public abstract void **setCallbackHandler**([CallbackHandler](http://docs.google.com/javax/security/auth/callback/CallbackHandler.html) handler)

Set a CallbackHandler.

The provider uses this handler if one is not passed to the login method. The provider also uses this handler if it invokes login on behalf of callers. In either case if a handler is not set via this method, the provider queries the *auth.login.defaultCallbackHandler* security property for the fully qualified class name of a default handler implementation. If the security property is not set, the provider is assumed to have alternative means for obtaining authentication information.

**Parameters:**handler - a CallbackHandler for obtaining authentication information, which may be null **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if the caller does not pass a security check for SecurityPermission("authProvider.*name*"), where *name* is the value returned by this provider's getName method

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/AuthProvider.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/security/AllPermission.html)   [**NEXT CLASS**](http://docs.google.com/java/security/BasicPermission.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/AuthProvider.html)    [**NO FRAMES**](http://docs.google.com/AuthProvider.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#2et92p0) | [FIELD](#3dy6vkm) | [CONSTR](#1t3h5sf) | [METHOD](#4d34og8) | DETAIL: FIELD | [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).