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

## **java.security**

Class IdentityScope

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.security.Identity](http://docs.google.com/java/security/Identity.html)  
 **java.security.IdentityScope**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Principal](http://docs.google.com/java/security/Principal.html)**Deprecated.** *This class is no longer used. Its functionality has been replaced by java.security.KeyStore, the java.security.cert package, and java.security.Principal.*

[@Deprecated](http://docs.google.com/java/lang/Deprecated.html)  
public abstract class **IdentityScope**extends [Identity](http://docs.google.com/java/security/Identity.html)

This class represents a scope for identities. It is an Identity itself, and therefore has a name and can have a scope. It can also optionally have a public key and associated certificates.

An IdentityScope can contain Identity objects of all kinds, including Signers. All types of Identity objects can be retrieved, added, and removed using the same methods. Note that it is possible, and in fact expected, that different types of identity scopes will apply different policies for their various operations on the various types of Identities.

There is a one-to-one mapping between keys and identities, and there can only be one copy of one key per scope. For example, suppose **Acme Software, Inc** is a software publisher known to a user. Suppose it is an Identity, that is, it has a public key, and a set of associated certificates. It is named in the scope using the name "Acme Software". No other named Identity in the scope has the same public key. Of course, none has the same name as well.

**See Also:**[Identity](http://docs.google.com/java/security/Identity.html), [Signer](http://docs.google.com/java/security/Signer.html), [Principal](http://docs.google.com/java/security/Principal.html), [Key](http://docs.google.com/java/security/Key.html), [Serialized Form](http://docs.google.com/serialized-form.html#java.security.IdentityScope)

| **Constructor Summary** | |
| --- | --- |
| protected | [**IdentityScope**](http://docs.google.com/java/security/IdentityScope.html#IdentityScope())()  **Deprecated.** This constructor is used for serialization only and should not be used by subclasses. |
|  | [**IdentityScope**](http://docs.google.com/java/security/IdentityScope.html#IdentityScope(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)  **Deprecated.** Constructs a new identity scope with the specified name. |
|  | [**IdentityScope**](http://docs.google.com/java/security/IdentityScope.html#IdentityScope(java.lang.String,%20java.security.IdentityScope))([String](http://docs.google.com/java/lang/String.html) name, [IdentityScope](http://docs.google.com/java/security/IdentityScope.html) scope)  **Deprecated.** Constructs a new identity scope with the specified name and scope. |

| **Method Summary** | |
| --- | --- |
| abstract  void | [**addIdentity**](http://docs.google.com/java/security/IdentityScope.html#addIdentity(java.security.Identity))([Identity](http://docs.google.com/java/security/Identity.html) identity)  **Deprecated.** Adds an identity to this identity scope. |
| [Identity](http://docs.google.com/java/security/Identity.html) | [**getIdentity**](http://docs.google.com/java/security/IdentityScope.html#getIdentity(java.security.Principal))([Principal](http://docs.google.com/java/security/Principal.html) principal)  **Deprecated.** Retrieves the identity whose name is the same as that of the specified principal. |
| abstract  [Identity](http://docs.google.com/java/security/Identity.html) | [**getIdentity**](http://docs.google.com/java/security/IdentityScope.html#getIdentity(java.security.PublicKey))([PublicKey](http://docs.google.com/java/security/PublicKey.html) key)  **Deprecated.** Retrieves the identity with the specified public key. |
| abstract  [Identity](http://docs.google.com/java/security/Identity.html) | [**getIdentity**](http://docs.google.com/java/security/IdentityScope.html#getIdentity(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)  **Deprecated.** Returns the identity in this scope with the specified name (if any). |
| static [IdentityScope](http://docs.google.com/java/security/IdentityScope.html) | [**getSystemScope**](http://docs.google.com/java/security/IdentityScope.html#getSystemScope())()  **Deprecated.** Returns the system's identity scope. |
| abstract  [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[Identity](http://docs.google.com/java/security/Identity.html)> | [**identities**](http://docs.google.com/java/security/IdentityScope.html#identities())()  **Deprecated.** Returns an enumeration of all identities in this identity scope. |
| abstract  void | [**removeIdentity**](http://docs.google.com/java/security/IdentityScope.html#removeIdentity(java.security.Identity))([Identity](http://docs.google.com/java/security/Identity.html) identity)  **Deprecated.** Removes an identity from this identity scope. |
| protected static void | [**setSystemScope**](http://docs.google.com/java/security/IdentityScope.html#setSystemScope(java.security.IdentityScope))([IdentityScope](http://docs.google.com/java/security/IdentityScope.html) scope)  **Deprecated.** Sets the system's identity scope. |
| abstract  int | [**size**](http://docs.google.com/java/security/IdentityScope.html#size())()  **Deprecated.** Returns the number of identities within this identity scope. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/java/security/IdentityScope.html#toString())()  **Deprecated.** Returns a string representation of this identity scope, including its name, its scope name, and the number of identities in this identity scope. |

| **Methods inherited from class java.security.**[**Identity**](http://docs.google.com/java/security/Identity.html) |
| --- |
| [addCertificate](http://docs.google.com/java/security/Identity.html#addCertificate(java.security.Certificate)), [certificates](http://docs.google.com/java/security/Identity.html#certificates()), [equals](http://docs.google.com/java/security/Identity.html#equals(java.lang.Object)), [getInfo](http://docs.google.com/java/security/Identity.html#getInfo()), [getName](http://docs.google.com/java/security/Identity.html#getName()), [getPublicKey](http://docs.google.com/java/security/Identity.html#getPublicKey()), [getScope](http://docs.google.com/java/security/Identity.html#getScope()), [hashCode](http://docs.google.com/java/security/Identity.html#hashCode()), [identityEquals](http://docs.google.com/java/security/Identity.html#identityEquals(java.security.Identity)), [removeCertificate](http://docs.google.com/java/security/Identity.html#removeCertificate(java.security.Certificate)), [setInfo](http://docs.google.com/java/security/Identity.html#setInfo(java.lang.String)), [setPublicKey](http://docs.google.com/java/security/Identity.html#setPublicKey(java.security.PublicKey)), [toString](http://docs.google.com/java/security/Identity.html#toString(boolean)) |

| **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)) |

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

### IdentityScope

protected **IdentityScope**()

**Deprecated.** This constructor is used for serialization only and should not be used by subclasses.

### IdentityScope

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

**Deprecated.** Constructs a new identity scope with the specified name.

**Parameters:**name - the scope name.

### IdentityScope

public **IdentityScope**([String](http://docs.google.com/java/lang/String.html) name,  
 [IdentityScope](http://docs.google.com/java/security/IdentityScope.html) scope)  
 throws [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html)

**Deprecated.** Constructs a new identity scope with the specified name and scope.

**Parameters:**name - the scope name.scope - the scope for the new identity scope. **Throws:** [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html) - if there is already an identity with the same name in the scope.

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

### getSystemScope

public static [IdentityScope](http://docs.google.com/java/security/IdentityScope.html) **getSystemScope**()

**Deprecated.** Returns the system's identity scope.

**Returns:**the system's identity scope.**See Also:**[setSystemScope(java.security.IdentityScope)](http://docs.google.com/java/security/IdentityScope.html#setSystemScope(java.security.IdentityScope))

### setSystemScope

protected static void **setSystemScope**([IdentityScope](http://docs.google.com/java/security/IdentityScope.html) scope)

**Deprecated.** Sets the system's identity scope.

First, if there is a security manager, its checkSecurityAccess method is called with "setSystemScope" as its argument to see if it's ok to set the identity scope.

**Parameters:**scope - the scope to set. **Throws:** [SecurityException](http://docs.google.com/java/lang/SecurityException.html) - if a security manager exists and its checkSecurityAccess method doesn't allow setting the identity scope.**See Also:**[getSystemScope()](http://docs.google.com/java/security/IdentityScope.html#getSystemScope()), [SecurityManager.checkSecurityAccess(java.lang.String)](http://docs.google.com/java/lang/SecurityManager.html#checkSecurityAccess(java.lang.String))

### size

public abstract int **size**()

**Deprecated.** Returns the number of identities within this identity scope.

**Returns:**the number of identities within this identity scope.

### getIdentity

public abstract [Identity](http://docs.google.com/java/security/Identity.html) **getIdentity**([String](http://docs.google.com/java/lang/String.html) name)

**Deprecated.** Returns the identity in this scope with the specified name (if any).

**Parameters:**name - the name of the identity to be retrieved. **Returns:**the identity named name, or null if there are no identities named name in this scope.

### getIdentity

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

**Deprecated.** Retrieves the identity whose name is the same as that of the specified principal. (Note: Identity implements Principal.)

**Parameters:**principal - the principal corresponding to the identity to be retrieved. **Returns:**the identity whose name is the same as that of the principal, or null if there are no identities of the same name in this scope.

### getIdentity

public abstract [Identity](http://docs.google.com/java/security/Identity.html) **getIdentity**([PublicKey](http://docs.google.com/java/security/PublicKey.html) key)

**Deprecated.** Retrieves the identity with the specified public key.

**Parameters:**key - the public key for the identity to be returned. **Returns:**the identity with the given key, or null if there are no identities in this scope with that key.

### addIdentity

public abstract void **addIdentity**([Identity](http://docs.google.com/java/security/Identity.html) identity)  
 throws [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html)

**Deprecated.** Adds an identity to this identity scope.

**Parameters:**identity - the identity to be added. **Throws:** [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html) - if the identity is not valid, a name conflict occurs, another identity has the same public key as the identity being added, or another exception occurs.

### removeIdentity

public abstract void **removeIdentity**([Identity](http://docs.google.com/java/security/Identity.html) identity)  
 throws [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html)

**Deprecated.** Removes an identity from this identity scope.

**Parameters:**identity - the identity to be removed. **Throws:** [KeyManagementException](http://docs.google.com/java/security/KeyManagementException.html) - if the identity is missing, or another exception occurs.

### identities

public abstract [Enumeration](http://docs.google.com/java/util/Enumeration.html)<[Identity](http://docs.google.com/java/security/Identity.html)> **identities**()

**Deprecated.** Returns an enumeration of all identities in this identity scope.

**Returns:**an enumeration of all identities in this identity scope.

### toString

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

**Deprecated.** Returns a string representation of this identity scope, including its name, its scope name, and the number of identities in this identity scope.

**Specified by:**[toString](http://docs.google.com/java/security/Principal.html#toString()) in interface [Principal](http://docs.google.com/java/security/Principal.html)**Overrides:**[toString](http://docs.google.com/java/security/Identity.html#toString()) in class [Identity](http://docs.google.com/java/security/Identity.html) **Returns:**a string representation of this identity scope.**See Also:**[SecurityManager.checkSecurityAccess(java.lang.String)](http://docs.google.com/java/lang/SecurityManager.html#checkSecurityAccess(java.lang.String))

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

[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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