| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PolicySpi.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/Policy.Parameters.html)   [**NEXT CLASS**](http://docs.google.com/java/security/Principal.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/PolicySpi.html)    [**NO FRAMES**](http://docs.google.com/PolicySpi.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

## **java.security**

Class PolicySpi

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

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

This class defines the *Service Provider Interface* (**SPI**) for the Policy class. All the abstract methods in this class must be implemented by each service provider who wishes to supply a Policy implementation.

Subclass implementations of this abstract class must provide a public constructor that takes a Policy.Parameters object as an input parameter. This constructor also must throw an IllegalArgumentException if it does not understand the Policy.Parameters input.

**Since:** 1.6

| **Constructor Summary** | |
| --- | --- |
| [**PolicySpi**](http://docs.google.com/java/security/PolicySpi.html#PolicySpi())() |

| **Method Summary** | |
| --- | --- |
| protected  [PermissionCollection](http://docs.google.com/java/security/PermissionCollection.html) | [**engineGetPermissions**](http://docs.google.com/java/security/PolicySpi.html#engineGetPermissions(java.security.CodeSource))([CodeSource](http://docs.google.com/java/security/CodeSource.html) codesource)            Return a PermissionCollection object containing the set of permissions granted to the specified CodeSource. |
| protected  [PermissionCollection](http://docs.google.com/java/security/PermissionCollection.html) | [**engineGetPermissions**](http://docs.google.com/java/security/PolicySpi.html#engineGetPermissions(java.security.ProtectionDomain))([ProtectionDomain](http://docs.google.com/java/security/ProtectionDomain.html) domain)            Return a PermissionCollection object containing the set of permissions granted to the specified ProtectionDomain. |
| protected abstract  boolean | [**engineImplies**](http://docs.google.com/java/security/PolicySpi.html#engineImplies(java.security.ProtectionDomain,%20java.security.Permission))([ProtectionDomain](http://docs.google.com/java/security/ProtectionDomain.html) domain, [Permission](http://docs.google.com/java/security/Permission.html) permission)            Check whether the policy has granted a Permission to a ProtectionDomain. |
| protected  void | [**engineRefresh**](http://docs.google.com/java/security/PolicySpi.html#engineRefresh())()            Refreshes/reloads the policy configuration. |

| **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** |
| --- |

### PolicySpi

public **PolicySpi**()

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

### engineImplies

protected abstract boolean **engineImplies**([ProtectionDomain](http://docs.google.com/java/security/ProtectionDomain.html) domain,  
 [Permission](http://docs.google.com/java/security/Permission.html) permission)

Check whether the policy has granted a Permission to a ProtectionDomain.

**Parameters:**domain - the ProtectionDomain to check.permission - check whether this permission is granted to the specified domain. **Returns:**boolean true if the permission is granted to the domain.

### engineRefresh

protected void **engineRefresh**()

Refreshes/reloads the policy configuration. The behavior of this method depends on the implementation. For example, calling refresh on a file-based policy will cause the file to be re-read.

The default implementation of this method does nothing. This method should be overridden if a refresh operation is supported by the policy implementation.

### engineGetPermissions

protected [PermissionCollection](http://docs.google.com/java/security/PermissionCollection.html) **engineGetPermissions**([CodeSource](http://docs.google.com/java/security/CodeSource.html) codesource)

Return a PermissionCollection object containing the set of permissions granted to the specified CodeSource.

The default implementation of this method returns Policy.UNSUPPORTED\_EMPTY\_COLLECTION object. This method can be overridden if the policy implementation can return a set of permissions granted to a CodeSource.

**Parameters:**codesource - the CodeSource to which the returned PermissionCollection has been granted. **Returns:**a set of permissions granted to the specified CodeSource. If this operation is supported, the returned set of permissions must be a new mutable instance and it must support heterogeneous Permission types. If this operation is not supported, Policy.UNSUPPORTED\_EMPTY\_COLLECTION is returned.

### engineGetPermissions

protected [PermissionCollection](http://docs.google.com/java/security/PermissionCollection.html) **engineGetPermissions**([ProtectionDomain](http://docs.google.com/java/security/ProtectionDomain.html) domain)

Return a PermissionCollection object containing the set of permissions granted to the specified ProtectionDomain.

The default implementation of this method returns Policy.UNSUPPORTED\_EMPTY\_COLLECTION object. This method can be overridden if the policy implementation can return a set of permissions granted to a ProtectionDomain.

**Parameters:**domain - the ProtectionDomain to which the returned PermissionCollection has been granted. **Returns:**a set of permissions granted to the specified ProtectionDomain. If this operation is supported, the returned set of permissions must be a new mutable instance and it must support heterogeneous Permission types. If this operation is not supported, Policy.UNSUPPORTED\_EMPTY\_COLLECTION is returned.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PolicySpi.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/Policy.Parameters.html)   [**NEXT CLASS**](http://docs.google.com/java/security/Principal.html) | [**FRAMES**](http://docs.google.com/index.html?java/security/PolicySpi.html)    [**NO FRAMES**](http://docs.google.com/PolicySpi.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) |

[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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