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

## **java.rmi.registry**

Interface Registry

**All Superinterfaces:** [Remote](http://docs.google.com/java/rmi/Remote.html)

public interface **Registry**extends [Remote](http://docs.google.com/java/rmi/Remote.html)

Registry is a remote interface to a simple remote object registry that provides methods for storing and retrieving remote object references bound with arbitrary string names. The bind, unbind, and rebind methods are used to alter the name bindings in the registry, and the lookup and list methods are used to query the current name bindings.

In its typical usage, a Registry enables RMI client bootstrapping: it provides a simple means for a client to obtain an initial reference to a remote object. Therefore, a registry's remote object implementation is typically exported with a well-known address, such as with a well-known [ObjID](http://docs.google.com/java/rmi/server/ObjID.html#REGISTRY_ID) and TCP port number (default is [1099](http://docs.google.com/java/rmi/registry/Registry.html#REGISTRY_PORT)).

The [LocateRegistry](http://docs.google.com/java/rmi/registry/LocateRegistry.html) class provides a programmatic API for constructing a bootstrap reference to a Registry at a remote address (see the static getRegistry methods) and for creating and exporting a Registry in the current VM on a particular local address (see the static createRegistry methods).

A Registry implementation may choose to restrict access to some or all of its methods (for example, methods that mutate the registry's bindings may be restricted to calls originating from the local host). If a Registry method chooses to deny access for a given invocation, its implementation may throw [AccessException](http://docs.google.com/java/rmi/AccessException.html), which (because it extends [RemoteException](http://docs.google.com/java/rmi/RemoteException.html)) will be wrapped in a [ServerException](http://docs.google.com/java/rmi/ServerException.html) when caught by a remote client.

The names used for bindings in a Registry are pure strings, not parsed. A service which stores its remote reference in a Registry may wish to use a package name as a prefix in the name binding to reduce the likelihood of name collisions in the registry.

**Since:** JDK1.1 **See Also:**[LocateRegistry](http://docs.google.com/java/rmi/registry/LocateRegistry.html)

| **Field Summary** | |
| --- | --- |
| static int | [**REGISTRY\_PORT**](http://docs.google.com/java/rmi/registry/Registry.html#REGISTRY_PORT)            Well known port for registry. |

| **Method Summary** | |
| --- | --- |
| void | [**bind**](http://docs.google.com/java/rmi/registry/Registry.html#bind(java.lang.String,%20java.rmi.Remote))([String](http://docs.google.com/java/lang/String.html) name, [Remote](http://docs.google.com/java/rmi/Remote.html) obj)            Binds a remote reference to the specified name in this registry. |
| [String](http://docs.google.com/java/lang/String.html)[] | [**list**](http://docs.google.com/java/rmi/registry/Registry.html#list())()            Returns an array of the names bound in this registry. |
| [Remote](http://docs.google.com/java/rmi/Remote.html) | [**lookup**](http://docs.google.com/java/rmi/registry/Registry.html#lookup(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns the remote reference bound to the specified name in this registry. |
| void | [**rebind**](http://docs.google.com/java/rmi/registry/Registry.html#rebind(java.lang.String,%20java.rmi.Remote))([String](http://docs.google.com/java/lang/String.html) name, [Remote](http://docs.google.com/java/rmi/Remote.html) obj)            Replaces the binding for the specified name in this registry with the supplied remote reference. |
| void | [**unbind**](http://docs.google.com/java/rmi/registry/Registry.html#unbind(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Removes the binding for the specified name in this registry. |

| **Field Detail** |
| --- |

### REGISTRY\_PORT

static final int **REGISTRY\_PORT**

Well known port for registry.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#java.rmi.registry.Registry.REGISTRY_PORT)

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

### lookup

[Remote](http://docs.google.com/java/rmi/Remote.html) **lookup**([String](http://docs.google.com/java/lang/String.html) name)  
 throws [RemoteException](http://docs.google.com/java/rmi/RemoteException.html),  
 [NotBoundException](http://docs.google.com/java/rmi/NotBoundException.html),  
 [AccessException](http://docs.google.com/java/rmi/AccessException.html)

Returns the remote reference bound to the specified name in this registry.

**Parameters:**name - the name for the remote reference to look up **Returns:**a reference to a remote object **Throws:** [NotBoundException](http://docs.google.com/java/rmi/NotBoundException.html) - if name is not currently bound [RemoteException](http://docs.google.com/java/rmi/RemoteException.html) - if remote communication with the registry failed; if exception is a ServerException containing an AccessException, then the registry denies the caller access to perform this operation [AccessException](http://docs.google.com/java/rmi/AccessException.html) - if this registry is local and it denies the caller access to perform this operation [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if name is null

### bind

void **bind**([String](http://docs.google.com/java/lang/String.html) name,  
 [Remote](http://docs.google.com/java/rmi/Remote.html) obj)  
 throws [RemoteException](http://docs.google.com/java/rmi/RemoteException.html),  
 [AlreadyBoundException](http://docs.google.com/java/rmi/AlreadyBoundException.html),  
 [AccessException](http://docs.google.com/java/rmi/AccessException.html)

Binds a remote reference to the specified name in this registry.

**Parameters:**name - the name to associate with the remote referenceobj - a reference to a remote object (usually a stub) **Throws:** [AlreadyBoundException](http://docs.google.com/java/rmi/AlreadyBoundException.html) - if name is already bound [RemoteException](http://docs.google.com/java/rmi/RemoteException.html) - if remote communication with the registry failed; if exception is a ServerException containing an AccessException, then the registry denies the caller access to perform this operation (if originating from a non-local host, for example) [AccessException](http://docs.google.com/java/rmi/AccessException.html) - if this registry is local and it denies the caller access to perform this operation [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if name is null, or if obj is null

### unbind

void **unbind**([String](http://docs.google.com/java/lang/String.html) name)  
 throws [RemoteException](http://docs.google.com/java/rmi/RemoteException.html),  
 [NotBoundException](http://docs.google.com/java/rmi/NotBoundException.html),  
 [AccessException](http://docs.google.com/java/rmi/AccessException.html)

Removes the binding for the specified name in this registry.

**Parameters:**name - the name of the binding to remove **Throws:** [NotBoundException](http://docs.google.com/java/rmi/NotBoundException.html) - if name is not currently bound [RemoteException](http://docs.google.com/java/rmi/RemoteException.html) - if remote communication with the registry failed; if exception is a ServerException containing an AccessException, then the registry denies the caller access to perform this operation (if originating from a non-local host, for example) [AccessException](http://docs.google.com/java/rmi/AccessException.html) - if this registry is local and it denies the caller access to perform this operation [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if name is null

### rebind

void **rebind**([String](http://docs.google.com/java/lang/String.html) name,  
 [Remote](http://docs.google.com/java/rmi/Remote.html) obj)  
 throws [RemoteException](http://docs.google.com/java/rmi/RemoteException.html),  
 [AccessException](http://docs.google.com/java/rmi/AccessException.html)

Replaces the binding for the specified name in this registry with the supplied remote reference. If there is an existing binding for the specified name, it is discarded.

**Parameters:**name - the name to associate with the remote referenceobj - a reference to a remote object (usually a stub) **Throws:** [RemoteException](http://docs.google.com/java/rmi/RemoteException.html) - if remote communication with the registry failed; if exception is a ServerException containing an AccessException, then the registry denies the caller access to perform this operation (if originating from a non-local host, for example) [AccessException](http://docs.google.com/java/rmi/AccessException.html) - if this registry is local and it denies the caller access to perform this operation [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if name is null, or if obj is null

### list

[String](http://docs.google.com/java/lang/String.html)[] **list**()  
 throws [RemoteException](http://docs.google.com/java/rmi/RemoteException.html),  
 [AccessException](http://docs.google.com/java/rmi/AccessException.html)

Returns an array of the names bound in this registry. The array will contain a snapshot of the names bound in this registry at the time of the given invocation of this method.

**Returns:**an array of the names bound in this registry **Throws:** [RemoteException](http://docs.google.com/java/rmi/RemoteException.html) - if remote communication with the registry failed; if exception is a ServerException containing an AccessException, then the registry denies the caller access to perform this operation [AccessException](http://docs.google.com/java/rmi/AccessException.html) - if this registry is local and it denies the caller access to perform this operation

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

[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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