

The RMI Proxy

API Reference

Beta 0.3

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for D.B.P.

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Package

com.rmiproxy

Description

Provides the classes needed by RMI clients and servers to implement RMI Proxying.

Class Summary	
Interfaces	
<code>Firewall_{xi}</code>	Defines the constants of the RMI application firewall (RMI proxy).
<code>Version_{xxxix}</code>	Copyright notice plus automatic revision & date tracker.
Classes	
<code>Configuration_{ix}</code>	Holds configuration details for the RMI application firewall.
<code>ProxyNaming_{xix}</code>	The main access point to the RMI application firewall.
Exceptions	
<code>FirewallException_{xiii}</code>	General firewall exception class.

Package

com.rmiproxy.jndi

Description

Provides a JNDI Service Provider for the RMI Proxy Registry. If the `rmi.proxyHost` property is not set, it is in all respects identical to the JNDI RMI Registry provider.

Class Summary

Classes

RegistryContext_{xxix}	A RegistryContext is a context representing a remote RMI registry.
RegistryContextFactory_{xxxvii}	A RegistryContextFactory takes an RMI registry reference, and creates the corresponding RMI object or registry context.

Package

com.rmiproxy.registry

Description

Provides the rmiproxy.registry package, for use by RMI clients and servers behind firewalls. The package is the RMI Proxy version of the java.rmi.registry package.

- The LocateProxyRegistry class supports locating a proxy registry
- The ProxyRegistry interface defines the interface to the proxy registry. It is identical to the java.rmi.Registry interface

Class Summary

Interfaces

[ProxyRegistry_{xxiii}](#) ProxyRegistry defines the remote interface to the proxy server.

Classes

[LocateProxyRegistry_{xv}](#) LocateRegistry is used to obtain a reference to a bootstrap remote object registry on a particular host (including the local host), or to create a remote object registry that accepts calls on a specific port.

[ProxyRegistry.
AbstractServer<sub>xx-
vii</sub>](#) Abstract implementation class, for rmic

com.rmiproxy Configuration

Syntax

```
public abstract class Configuration  
  
java.lang.Object  
|  
+--com.rmiproxy.Configuration
```

Description

Holds configuration details for the RMI application firewall.

Configuration details are read from a configuration file, which is a standard Java properties file named *rmi-proxy.config*. All hosts involved in the RMI Proxy setup (client, server and all intervening proxies) are required to have a such a file. It is assumed to exist in the current directory (TODO Fix this?), along with any *rmi-proxy.policy* file (required by proxy hosts only).

Currently two values are configurable:

- **rmi.proxyHost**, the RMI URL of the RMI proxy for this host. It must be specified as a URL, e.g. 'rmi://proxyHostName:1099'. For clients and servers, this may be overridden on the command line with '-Drmi.proxyHost'.
- **rmi.nonProxyHosts**, a space-separated list of RMI URL-formatted names. Each item names a host which is locally accessible and does not need to be accessed via the RMI proxy.

Member Summary

Fields

```
public static final ConfigFileix  
  
Name of the configuration file.
```

Methods

```
public static Configurationix current()  
public abstract String getNonProxyHosts()x  
public abstract String getProxyHost()x  
public abstract boolean isNonProxyHost(String)x
```

ConfigFile

```
public static final java.lang.String ConfigFile  
Name of the configuration file.
```

current()

```
public static Configurationix current()
```

`getNonProxyHosts()`

Returns: The singleton Configuration instance

getNonProxyHosts()

```
public abstract java.lang.String getNonProxyHosts()
```

Returns: The non-RMI-proxy hosts as a space-separated list of RMI URL-formatted names, or null if there are none.

RMI requests for these hosts will be forwarded directly and not via the RMI proxy.

getProxyHost()

```
public abstract java.lang.String getProxyHost()
```

Returns: The RMI URL (e.g. 'rmi://10.0.1.6') of the proxy host, or null if there is no proxy.

When present, it is always the URL of the RMI Proxy which is closer to the Internet than this host.

isNonProxyHost(String)

```
public abstract boolean isNonProxyHost(java.lang.String host)
```

Returns: False iff the specified host is reached via the RMI proxy

com.rmiproxy Firewall

Syntax

```
public interface Firewall
```

Description

Defines the constants of the RMI application firewall (RMI proxy).

Member Summary

Fields

```
public static final JRMP_PROXY_PORTxi
```

Port used by the proxy registry.

```
public static final NonProxyHostsPropertyNamexi
```

Configuration property which names a list of directly accessible hosts.

```
public static final PolicyFileNamexi
```

Name of the RMI Proxy security policy file.

```
public static final ProxyHostPropertyNamexii
```

Configuration property which names the RMI proxy host.

JRMP_PROXY_PORT

```
public static final int JRMP_PROXY_PORT
```

Port used by the proxy registry. This is currently hardcoded to be the RMI Registry port.

NonProxyHostsPropertyName

```
public static final java.lang.String NonProxyHostsPropertyName
```

Configuration property which names a list of directly accessible hosts. This is `rmi.nonProxyHosts`.

These hosts will not be accessed via the RMI proxy.

PolicyFileName

```
public static final java.lang.String PolicyFileName
```

Name of the RMI Proxy security policy file.

A security policy file defining access permissions is required for every RMI Proxy. By default, this is `./rmiproxy.policy`, but this can be overridden on the command line using `-Djava.security.policy`.

Firewall

com.rmiproxy

ProxyHostPropertyName

ProxyHostPropertyName

```
public static final java.lang.String ProxyHostPropertyName
```

Configuration property which names the RMI proxy host. This is `rmi.proxyHost`

com.rmiproxy FirewallException

Syntax

```
public class FirewallException extends java.rmi.RemoteException
```

```
java.lang.Object
|
+--java.lang.Throwable
|
+--java.lang.Exception
|
+--java.io.IOException
|
+--java.rmi.RemoteException
|
+--com.rmiproxy.FirewallException
```

All Implemented Interfaces: java.io.Serializable

Description

General firewall exception class.

Member Summary

Constructors

```
public FirewallException() xiii
    Construct a FirewallException

public FirewallException(String) xiii
    Construct a FirewallException with the specified message.

public FirewallException(String, Exception) xiv
    Construct a FirewallException with the specified message.
```

FirewallException()

```
public FirewallException()
    Construct a FirewallException
```

FirewallException(String)

```
public FirewallException(java.lang.String msg)
    Construct a FirewallException with the specified message.
```

Parameters:

msg - Message

FirewallException

com.rmiproxy

`FirewallException(String, Exception)`

FirewallException(String, Exception)

```
public FirewallException(java.lang.String msg, java.lang.Exception detail)
```

Construct a FirewallException with the specified message.

Parameters:

msg - Message

detail - Nested exception

com.rmiproxy.registry

LocateProxyRegistry

Syntax

```
public final class LocateProxyRegistry  
  
java.lang.Object  
|  
+--com.rmiproxy.registry.LocateProxyRegistry
```

Description

LocateRegistry is used to obtain a reference to a bootstrap remote object registry on a particular host (including the local host), or to create a remote object registry that accepts calls on a specific port.

Note that a `getRegistry` call does not actually make a connection to the remote host. It simply creates a local reference to the remote registry and will succeed even if no registry is running on the remote host. Therefore, a subsequent method invocation to a remote registry returned as a result of this method may fail.

Since: JDK1.1

See Also: Modified EJP 15/9/2000 for ProxyNaming. This does make a connection to the remote

Member Summary	
Methods	
public static Registry	<code>createRegistry(int)</code> <small>xvi</small> Creates and exports a Registry on the local host that accepts requests on the specified port.
public static Registry	<code>createRegistry(int, RMIClientSocketFactory, RMIServerSocketFactory)</code> <small>xvi</small> Creates and exports a Registry on the local host that uses custom socket factories for communication with that registry.
public static ProxyRegistry	<code>getRegistry()</code> <small>xvi</small> Returns a reference to the the remote object Registry for the local host on the default registry port of 1099.
public static ProxyRegistry	<code>getRegistry(int)</code> <small>xvii</small> Returns a reference to the the remote object Registry for the local host on the specified port.
public static ProxyRegistry	<code>getRegistry(String)</code> <small>xvii</small> Returns a reference to the remote object Registry on the specified host on the default registry port of 1099.
public static ProxyRegistry	<code>getRegistry(String, int)</code> <small>xvii</small> Returns a reference to the remote object Registry on the specified host and port.

createRegistry(int)

Member Summary

<pre>public static ProxyRegistry</pre>	<pre>getRegistry(String, int, RMIClientSocketFactory)</pre>	<p><small>xviii</small></p> <p>Returns a locally created remote reference to the remote object Registry on the specified host and port.</p>
--	---	---

createRegistry(int)

```
public static java.rmi.registry.Registry createRegistry(int port)
```

Creates and exports a Registry on the local host that accepts requests on the specified port.

Parameters:

port - the port on which the registry accepts requests

Returns: the registry

Throws:

RemoteException - if the registry could not be exported

Since: JDK1.1

createRegistry(int, RMIClientSocketFactory, RMIServerSocketFactory)

```
public static java.rmi.registry.Registry createRegistry(int port,
    java.rmi.server.RMIClientSocketFactory csf,
    java.rmi.server.RMIServerSocketFactory ssf)
```

Creates and exports a Registry on the local host that uses custom socket factories for communication with that registry. The registry that is created listens for incoming requests on the given port using a ServerSocket created from the supplied RMIServerSocketFactory. A client that receives a reference to this registry will use a Socket created from the supplied RMIClientSocketFactory.

Parameters:

port - port on which the registry accepts requests

csf - client-side Socket factory used to make connections to the registry

ssf - server-side ServerSocket factory used to accept connections to the registry

Returns: the registry

Throws:

RemoteException - if the registry could not be exported

Since: 1.2

getRegistry()

```
public static ProxyRegistry getRegistry()
```

Returns a reference to the the remote object Registry for the local host on the default registry port of 1099.

Returns: reference (a stub) to the remote object registry

Throws:

RemoteException - if the reference could not be created

NotBoundException

Since: JDK1.1

getRegistry(int)

```
public static ProxyRegistryxxiii getRegistry(int port)
```

Returns a reference to the the remote object Registry for the local host on the specified port.

Parameters:

port - port on which the registry accepts requests

Returns: reference (a stub) to the remote object registry

Throws:

RemoteException - if the reference could not be created

NotBoundException

Since: JDK1.1

getRegistry(String)

```
public static ProxyRegistryxxiii getRegistry(java.lang.String host)
```

Returns a reference to the remote object Registry on the specified host on the default registry port of 1099. If host is null, the local host is used.

Parameters:

host - host for the remote registry

Returns: reference (a stub) to the remote object registry

Throws:

RemoteException - if the reference could not be created

NotBoundException

Since: JDK1.1

getRegistry(String, int)

```
public static ProxyRegistryxxiii getRegistry(java.lang.String host, int port)
```

Returns a reference to the remote object Registry on the specified host and port. If host is null, the local host is used.

Parameters:

host - host for the remote registry

port - port on which the registry accepts requests

Returns: reference (a stub) to the remote object registry

Throws:

RemoteException - if the reference could not be created

NotBoundException

Since: JDK1.1

getRegistry(String, int, RMIClientSocketFactory)

```
public static ProxyRegistryxxiii getRegistry(java.lang.String host, int port,  
                                             java.rmi.server.RMIClientSocketFactory csf)
```

Returns a locally created remote reference to the remote object `Registry` on the specified host and port. Communication with this remote registry will use the supplied `RMIClientSocketFactory csf` to create `Socket` connections to the registry on the remote host and port.

Parameters:

host - host for the remote registry

port - port on which the registry accepts requests

csf - client-side `Socket` factory used to make connections to the registry. If `csf` is null, then the default client-side `Socket` factory will be used in the registry stub.

Returns: reference (a stub) to the remote registry

Throws:

`RemoteException` - if the reference could not be created

`NotBoundException`

Since: 1.2

com.rmiproxy ProxyNaming

Syntax

```
public final class ProxyNaming  
  
java.lang.Object  
|  
+--com.rmiproxy.ProxyNaming
```

Description

The main access point to the RMI application firewall. `ProxyNaming` is the only interface clients and servers need to use.

For RMI **servers**, the RMI Proxy provides:

- the ability to **place RMI servers behind firewalls**
- **access control** to the remote service, by
- hostname/IP address
- bound-name
- remote interfaces and methods

For RMI **clients**, the RMI Proxy supercedes the inferior HTTP tunnelling technique, providing:

- the same ability to place clients behind firewalls
- much improved performance and reliability over HTTP tunnelling
- the ability to **access RMI servers behind different firewalls**
- **access control** to the remote service, by
- hostname/IP address
- bound-name
- remote interfaces and methods

The API implemented by `ProxyNaming` is identical to that of `java.rmi.Naming`.

When an RMI **server** behind a firewall is bound to a registry, `ProxyNaming.bind` or `rebind` should be used instead of `java.rmi.Naming.bind` or `rebind`. This propagates the binding to the server JVM's RMI Proxy Registry. This proxy in turn may have another, more outer, proxy, specified by the value of its `rmi.proxyHost` property; if so, the propagation continues all the way to the outermost one at the final firewall (i.e. the one which has no further proxy). As a result, the server binding is now visible at the outermost RMI Proxy (usually, to the Internet), and can be accessed by clients, subject to the access control policies of the RMI Proxies. The `bind/rebind` action itself is also subject to the access control policy of each proxy, so as to control the security of binding to remote registries - this is not supported by `java.rmi.Naming`.

When an RMI **client** behind a firewall looks up an RMI registry URL, it should use `ProxyNaming.lookup` instead of `java.rmi.Naming.lookup`. This action delegates the lookup via all the client-side proxies, specified by the value of their `rmi.proxyHost` property, to the proxy at the final firewall (i.e. the one which has no further proxy - usually, the one at the junction with the Internet). Network administrators willing, this proxy is able to 'see' the server's outermost proxy through both the remaining firewalls, and so a binding for the name can be found.

The `rmi.proxyHost` property is an RMI URL which names the RMI Proxy host and port for the current JVM (similar to `http.proxyHost` and `http.proxyPort`). It is always the RMI Proxy which is closer to the Internet than this host.

bind(String, Remote)

The `rmi.nonProxyHosts` property is a list of hostnames that `ProxyNaming` should contact directly, not via the proxy. If the host being contacted appears in `rmi.nonProxyHosts`, or if no value for `rmi.proxyHost` is set, `ProxyNaming` behaves identically to `java.rmi.Naming`.

Notes:

- The RMI URL to be looked up by an RMI client must contain the hostname/port number of the outermost server-side RMI proxy, not the hostname/port number of the server itself.
- If the server is not behind a firewall, it need not use `ProxyNaming`, regardless of where the client is.
- If the client is not behind a firewall, it need not use `ProxyNaming`, regardless of where the server is.
- Any client of an RMI server, whether accessed directly or via an RMI Proxy, must be prepared to deal with a `NoSuchObjectException` arising out of a premature unexport due to a false DGC report. This is not a new issue in RMI design: it can occur whenever “network partitions exist between client and server” (*RMI Specification*, §3), because these make DGC unreliable. It is *likely* to occur in configurations involving RMI Proxies because such configurations almost always contain network partitions.
- For security and administrative reasons, the RMI Proxy runs on a single TCP/IP port, the standard RMI Registry port (1099). This port must be opened by the firewall administrator for access by the RMI Proxy.

Member Summary**Methods**

public static void	<code>bind(String, Remote)</code> _{xx}	Binds a name to a remote object.
public static String	<code>list(String)</code> _{xxi}	Lists the contents of a remote registry.
public static Remote	<code>lookup(String)</code> _{xxi}	Looks up a remote item in a registry.
public static void	<code>rebind(String, Remote)</code> _{xxi}	Rebinds a name to a new remote object, overriding any existing binding.
public static void	<code>unbind(String)</code> _{xxii}	Unbinds a name from any association with a remote object.

bind(String, Remote)

```
public static void bind(java.lang.String name, java.rmi.Remote object)
```

Binds a name to a remote object.

Parameters:

name - RMI URL of the item: `rmi://host[:port]/item`

object - reference to the remote object to bind

Throws:

`RemoteException` - remote error

`AccessException` - permission denied by RMI or firewall

`AlreadyBoundException` - name already bound

`MalformedURLException` - bad item URL

list(String)

```
public static java.lang.String[] list(java.lang.String name)
```

Lists the contents of a remote registry.

Parameters:

name - RMI URL of the registry: `rmi://host[:port]`. Note that if the server is behind a firewall, the client must provide the hostname/port number of the outermost server-side RMI proxy, not the hostname/port number of the server itself.

Returns: An array (possibly 0 elements) of URL-formatted names bound in the registry.

Throws:

`RemoteException` - remote error

`AccessException` - permission denied by RMI or firewall

`MalformedURLException` - bad registry URL

lookup(String)

```
public static java.rmi.Remote lookup(java.lang.String name)
```

Looks up a remote item in a registry.

Parameters:

name - RMI URL of the item: `rmi://host[:port]/item`. Note that if the server is behind a firewall, the client must provide the hostname/port number of the outermost server-side RMI proxy, not the hostname/port number of the server itself.

Returns: A stub to the remote object bound to name

Throws:

`RemoteException` - remote error

`AccessException` - permission denied by RMI or firewall

`NotBoundException` - name not bound

`MalformedURLException` - bad item URL

rebind(String, Remote)

```
public static void rebind(java.lang.String name, java.rmi.Remote object)
```

Rebinds a name to a new remote object, overriding any existing binding.

Parameters:

name - RMI URL of the item: `rmi://host[:port]/item`

object - reference to the remote object to bind

Throws:

`RemoteException` - remote error

`AccessException` - permission denied by RMI or firewall

`MalformedURLException` - bad item URL

unbind(String)

```
public static void unbind(java.lang.String name)
```

Unbinds a name from any association with a remote object.

Parameters:

name - RMI URL of the item: `rmi://host[:port]/item`

Throws:

`RemoteException` - remote error

`AccessException` - permission denied by RMI or firewall

`NotBoundException` - name not bound

`MalformedURLException` - bad item URL

com.rmiproxy.registry ProxyRegistry

Syntax

```
public interface ProxyRegistry extends java.rmi.registry.Registry
```

All Superinterfaces: `java.rmi.registry.Registry`, `java.rmi.Remote`

All Known Implementing Classes: `ProxyRegistry.AbstractServer`_{xxvii}

Description

ProxyRegistry defines the remote interface to the proxy server. The interface is nothing more than the Registry interface. Consider that a client can only obtain an initial RMI reference via a naming service, which may have to be accessed via one or more proxies. Any RMI reference returned by the proxy, including this one, is swizzled into a reference to the proxy. Any RMI reference passed to the proxy by the client is similarly swizzled into a reference to the proxy (for callbacks). Now consider a server; it binds itself to the local Registry. If these are executing behind a firewall there will be one or more proxies intervening, so the bind is exported to the proxy nearest. This goes through all the same processes as above, with the result that the server now appears to be running in the proxy. If the server returns a reference to another remote object, that object also gets proxied, etcetera ad infinitum.

Member Summary	
Inner Classes	
<code>ProxyRegistry.AbstractServer</code> _{xxvii}	Abstract implementation class, for rmic
Methods	
<code>public void</code>	<code>bind(String, Remote)</code> _{xxiii}
	Bind
<code>public String</code>	<code>list(String)</code> _{xxiv}
	List the bindings in a registry
<code>public Remote</code>	<code>lookup(String)</code> _{xxiv}
	Lookup a binding in a registry
<code>public void</code>	<code>rebind(String, Remote)</code> _{xxiv}
	Rebind
<code>public void</code>	<code>unbind(String)</code> _{xxv}
	Unbind

`bind(String, Remote)`

```
public void bind(java.lang.String url, java.rmi.Remote object)
```

list(String)

Bind

Overrides: `bind(String, Remote)`^{xxiii} in interface `ProxyRegistry`^{xxiii}

Parameters:

url - Name to bind

object - Object to bind

Throws:

`AlreadyBoundException` - name is already bound

`AccessException` - no permission to bind

`RemoteException` - on any remote error

list(String)

```
public java.lang.String[] list(java.lang.String url)
```

List the bindings in a registry

Parameters:

url - URL of registry

Throws:

`MalformedURLException` - bad URL

`RemoteException` - I/O error

`AccessException` - permission denied

lookup(String)

```
public java.rmi.Remote lookup(java.lang.String url)
```

Lookup a binding in a registry

Overrides: `lookup(String)`^{xxiv} in interface `ProxyRegistry`^{xxiii}

Parameters:

url - URL to look up

Throws:

`NotBoundException` - name not bound

`RemoteException` - I/O error

`AccessException` - permission denied

rebind(String, Remote)

```
public void rebind(java.lang.String url, java.rmi.Remote object)
```

Rebind

Overrides: `rebind(String, Remote)`^{xxiv} in interface `ProxyRegistry`^{xxiii}

Parameters:

url - Name to bind

object - Object to bind

Throws:

AccessE`xc`ption - no permission to rebind
RemoteE`xc`ption - on any remote error

unbind(String)

```
public void unbind(java.lang.String url)
```

Unbind

Overrides: [unbind\(String\)](#)_{xxv} in interface [ProxyRegistry](#)_{xxiii}

Parameters:

url - URL to unbind

Throws:

NotBoundE`xc`ption - name is not bound
AccessE`xc`ption - no permission to unbind
RemoteE`xc`ption - on any remote error

com.rmiproxy.registry

ProxyRegistry.AbstractServer

Syntax

```
public abstract static class ProxyRegistry.AbstractServer extends  
    java.rmi.server.UnicastRemoteObject implements ProxyRegistryxxiii
```

```
java.lang.Object  
|  
+--java.rmi.server.RemoteObject  
|  
+--java.rmi.server.RemoteServer  
|  
+--java.rmi.server.UnicastRemoteObject  
|  
+--com.rmiproxy.registry.ProxyRegistry.AbstractServer
```

All Implemented Interfaces: [ProxyRegistry^{xxiii}](#), [java.rmi.registry.Registry](#), [java.rmi.Remote](#), [java.io.Serializable](#)

Description

Abstract implementation class, for rmic

Member Summary

Constructors

```
public ProxyRegistry.AbstractServer(int)xxvii  
public ProxyRegistry.AbstractServer(int, RMIClientSocketFactory,  
    RMIServerSocketFactory)xxvii
```

ProxyRegistry.AbstractServer(int)

```
public ProxyRegistry.AbstractServer(int port)
```

Throws:

```
RemoteException
```

ProxyRegistry.AbstractServer(int, RMIClientSocketFactory, RMIServerSocketFactory)

```
public ProxyRegistry.AbstractServer(int port,  
    java.rmi.server.RMIClientSocketFactory csf,  
    java.rmi.server.RMIServerSocketFactory ssf)
```

Throws:

```
RemoteException
```

ProxyRegistry.AbstractServer

com.rmiproxy.registry

ProxyRegistry.AbstractServer(int, RMIClientSocketFactory, RMIServerSocketFactory)

com.rmiproxy.jndi RegistryContext

Syntax

```
public class RegistryContext implements javax.naming.Context, javax.naming.Referenceable
```

```
java.lang.Object  
|  
+--com.rmiproxy.jndi.RegistryContext
```

All Implemented Interfaces: javax.naming.Context, javax.naming.Referenceable

Description

A RegistryContext is a context representing a remote RMI registry.

Member Summary	
Fields	
public static final	SECURITY_MGR _{xxxv}
Constructors	
public	RegistryContext (String, int, Hashtable) _{xxxiv}
	Returns a context for the registry at a given host and port.
Methods	
public Object	addToEnvironment (String, Object) _{xxx}
public void	bind (Name, Object) _{xxx}
	If the object to be bound is both Remote and Referenceable, binds the object itself, not its Reference.
public void	bind (String, Object) _{xxx}
public void	close () _{xxx}
public Name	composeName (Name, Name) _{xxxii}
public String	composeName (String, String) _{xxxii}
public Context	createSubcontext (Name) _{xxxii}
public Context	createSubcontext (String) _{xxxii}
public void	destroySubcontext (Name) _{xxxii}
public void	destroySubcontext (String) _{xxxii}
protected void	finalize () _{xxxii}
public Hashtable	getEnvironment () _{xxxii}
public String	getNameInNamespace () _{xxxii}
public NameParser	getNameParser (Name) _{xxxii}
public NameParser	getNameParser (String) _{xxxii}
public Reference	getReference () _{xxxii}
	Returns an RMI registry reference for this context.
public NamingEnumera- tion	list (Name) _{xxxiii}
public NamingEnumera- tion	list (String) _{xxxiii}

addToEnvironment(String, Object)

Member Summary	
public NamingEnumeration	listBindings(Name) _{xxxiii}
public NamingEnumeration	listBindings(String) _{xxxiii}
public Object	lookup(Name) _{xxxiii}
public Object	lookup(String) _{xxxiii}
public Object	lookupLink(Name) _{xxxiv}
public Object	lookupLink(String) _{xxxiv}
public void	rebind(Name, Object) _{xxxiv}
public void	rebind(String, Object) _{xxxiv}
public Object	removeFromEnvironment(String) _{xxxiv}
public void	rename(Name, Name) _{xxxv}
	Rename is implemented by this sequence of operations: lookup, bind, unbind.
public void	rename(String, String) _{xxxv}
public void	unbind(Name) _{xxxv}
public void	unbind(String) _{xxxv}
public static NamingException	wrapRemoteException(RemoteException) _{xxxv}
	Wrap a RemoteException inside a NamingException.

addToEnvironment(String, Object)

```
public java.lang.Object addToEnvironment(java.lang.String propName,
    java.lang.Object propVal)
```

Specified By: [addToEnvironment\(String, Object\)](#)_{xxx} in interface [RegistryContext](#)_{xxix}

Throws:

[NamingException](#)

bind(Name, Object)

```
public void bind(javax.naming.Name name, java.lang.Object obj)
```

If the object to be bound is both Remote and Referenceable, binds the object itself, not its Reference.

Specified By: [bind\(Name, Object\)](#)_{xxx} in interface [RegistryContext](#)_{xxix}

Throws:

[NamingException](#)

bind(String, Object)

```
public void bind(java.lang.String name, java.lang.Object obj)
```

Specified By: [bind\(String, Object\)](#)_{xxx} in interface [RegistryContext](#)_{xxix}

Throws:

[NamingException](#)

close()

```
public void close()
```

Specified By: `close()` xxx in interface `RegistryContext` xxix

composeName(Name, Name)

```
public javax.naming.Name composeName(javax.naming.Name name, javax.naming.Name prefix)
```

Specified By: `composeName(Name, Name)` xxxi in interface `RegistryContext` xxix

Throws:

NamingException

composeName(String, String)

```
public java.lang.String composeName(java.lang.String name, java.lang.String prefix)
```

Specified By: `composeName(String, String)` xxxi in interface `RegistryContext` xxix

Throws:

NamingException

createSubcontext(Name)

```
public javax.naming.Context createSubcontext(javax.naming.Name name)
```

Specified By: `createSubcontext(Name)` xxxi in interface `RegistryContext` xxix

Throws:

NamingException

createSubcontext(String)

```
public javax.naming.Context createSubcontext(java.lang.String name)
```

Specified By: `createSubcontext(String)` xxxi in interface `RegistryContext` xxix

Throws:

NamingException

destroySubcontext(Name)

```
public void destroySubcontext(javax.naming.Name name)
```

Specified By: `destroySubcontext(Name)` xxxi in interface `RegistryContext` xxix

Throws:

NamingException

destroySubcontext(String)

```
public void destroySubcontext(java.lang.String name)
```

Specified By: `destroySubcontext(String)` xxxi in interface `RegistryContext` xxix

Throws:

`finalize()``NamingException`

finalize()`protected void finalize()`**Overrides:** `java.lang.Object.finalize()` in class `java.lang.Object`

getEnvironment()`public java.util.Hashtable getEnvironment()`**Specified By:** `getEnvironment()` [xxxii](#) in interface `RegistryContext` [xxix](#)**Throws:**`NamingException`

getNameInNamespace()`public java.lang.String getNameInNamespace()`**Specified By:** `getNameInNamespace()` [xxxii](#) in interface `RegistryContext` [xxix](#)

getNameParser(Name)`public javax.naming.NameParser getNameParser(javax.naming.Name name)`**Specified By:** `getNameParser(Name)` [xxxii](#) in interface `RegistryContext` [xxix](#)**Throws:**`NamingException`

getNameParser(String)`public javax.naming.NameParser getNameParser(java.lang.String name)`**Specified By:** `getNameParser(String)` [xxxii](#) in interface `RegistryContext` [xxix](#)**Throws:**`NamingException`

getReference()`public javax.naming.Reference getReference()`

Returns an RMI registry reference for this context.

If this context was created from a reference, that reference is returned. Otherwise, an exception is thrown if the registry's host is "localhost" or the default (null). Although this could possibly make for a valid reference, it's far more likely to be an easily made error.

Specified By: `getReference()` [xxxii](#) in interface `RegistryContext` [xxix](#)**Throws:**`NamingException`

See Also: [RegistryContextFactory](#)_{xxxvii}

list(Name)

```
public javax.naming.NamingEnumeration list(javax.naming.Name name)
```

Specified By: [list\(Name\)](#)_{xxxiii} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

list(String)

```
public javax.naming.NamingEnumeration list(java.lang.String name)
```

Specified By: [list\(String\)](#)_{xxxiii} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

listBindings(Name)

```
public javax.naming.NamingEnumeration listBindings(javax.naming.Name name)
```

Specified By: [listBindings\(Name\)](#)_{xxxiii} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

listBindings(String)

```
public javax.naming.NamingEnumeration listBindings(java.lang.String name)
```

Specified By: [listBindings\(String\)](#)_{xxxiii} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

lookup(Name)

```
public java.lang.Object lookup(javax.naming.Name name)
```

Specified By: [lookup\(Name\)](#)_{xxxiii} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

lookup(String)

```
public java.lang.Object lookup(java.lang.String name)
```

Specified By: [lookup\(String\)](#)_{xxxiii} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

`lookupLink(Name)`

lookupLink(Name)

```
public java.lang.Object lookupLink(javax.naming.Name name)
```

Specified By: `lookupLink(Name)`^{xxxiv} in interface `RegistryContext`^{xxix}

Throws:

`NamingException`

lookupLink(String)

```
public java.lang.Object lookupLink(java.lang.String name)
```

Specified By: `lookupLink(String)`^{xxxiv} in interface `RegistryContext`^{xxix}

Throws:

`NamingException`

rebind(Name, Object)

```
public void rebind(javax.naming.Name name, java.lang.Object obj)
```

Specified By: `rebind(Name, Object)`^{xxxiv} in interface `RegistryContext`^{xxix}

Throws:

`NamingException`

rebind(String, Object)

```
public void rebind(java.lang.String name, java.lang.Object obj)
```

Specified By: `rebind(String, Object)`^{xxxiv} in interface `RegistryContext`^{xxix}

Throws:

`NamingException`

RegistryContext(String, int, Hashtable)

```
public RegistryContext(java.lang.String host, int port, java.util.Hashtable env)
```

Returns a context for the registry at a given host and port. If “host” is null, uses default host. If “port” is non-positive, uses default port. Cloning of “env” is handled by caller; see comments within `RegistryContextFactory.getObjectInstance()`, for example.

Throws:

`NamingException`

removeFromEnvironment(String)

```
public java.lang.Object removeFromEnvironment(java.lang.String propName)
```

Specified By: `removeFromEnvironment(String)`^{xxxiv} in interface `RegistryContext`^{xxix}

Throws:

`NamingException`

rename(Name, Name)

```
public void rename(javax.naming.Name oldName, javax.naming.Name newName)
```

Rename is implemented by this sequence of operations: lookup, bind, unbind. The sequence is not performed atomically.

Specified By: [rename \(Name, Name\)](#)_{xxxv} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

rename(String, String)

```
public void rename(java.lang.String name, java.lang.String newName)
```

Specified By: [rename \(String, String\)](#)_{xxxv} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

SECURITY_MGR

```
public static final java.lang.String SECURITY_MGR
```

unbind(Name)

```
public void unbind(javax.naming.Name name)
```

Specified By: [unbind \(Name\)](#)_{xxxv} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

unbind(String)

```
public void unbind(java.lang.String name)
```

Specified By: [unbind \(String\)](#)_{xxxv} in interface [RegistryContext](#)_{xxix}

Throws:

NamingException

wrapRemoteException(RemoteException)

```
public static javax.naming.NamingException wrapRemoteException(java.rmi.RemoteException  
re)
```

Wrap a RemoteException inside a NamingException.

RegistryContext

com.rmiproxy.jndi

wrapRemoteException(RemoteException)

com.rmiproxy.jndi RegistryContextFactory

Syntax

```
public class RegistryContextFactory implements
    javax.naming.spi.ObjectFactory, javax.naming.spi.InitialContextFactory

java.lang.Object
|
+--com.rmiproxy.jndi.RegistryContextFactory
```

All Implemented Interfaces: javax.naming.spi.InitialContextFactory, javax.naming.spi.ObjectFactory

Description

A RegistryContextFactory takes an RMI registry reference, and creates the corresponding RMI object or registry context. In addition, it serves as the initial context factory when using an RMI registry as an initial context.

When an initial context is being created, the environment property “java.naming.provider.url” should contain the RMI URL of the appropriate registry. Otherwise, the default URL “rmi:” is used.

An RMI registry reference contains one or more StringRefAddr's of type “URL”, each containing a single RMI URL. Other addresses are ignored. Multiple URLs represent alternative addresses for the same logical resource. The order of the addresses is not significant.

Member Summary	
Fields	
public static final	ADDRESS_TYPE _{xxxvii}
	The type of each address in an RMI registry reference.
Constructors	
public	RegistryContextFactory() _{xxxviii}
Methods	
public Context	getInitialContext(Hashtable) _{xxxvii}
public Object	getObjectInstance(Object, Name, Context, Hashtable) _{xxxviii}

ADDRESS_TYPE

```
public static final java.lang.String ADDRESS_TYPE

The type of each address in an RMI registry reference.
```

getInitialContext(Hashtable)

```
public javax.naming.Context getInitialContext(java.util.Hashtable env)
```

Specified By: [getInitialContext\(Hashtable\)](#)_{xxxvii} in interface [RegistryContextFactory](#)_{xxxvii}

RegistryContextFactory com.rmiproxy.jndi
getObjectInstance(Object, Name, Context, Hashtable)

Throws:
NamingException

getObjectInstance(Object, Name, Context, Hashtable)

```
public java.lang.Object getObjectInstance(java.lang.Object ref, javax.naming.Name name,
    javax.naming.Context nameCtx, java.util.Hashtable env)
```

Specified By: [getObjectInstance\(Object, Name, Context, Hashtable\)](#)_{xxxviii} in
interface [RegistryContextFactory](#)_{xxxvii}

Throws:
NamingException

RegistryContextFactory()

```
public RegistryContextFactory()
```

com.rmiproxy Version

Syntax

```
public interface Version
```

Description

Copyright notice plus automatic revision & date tracker.

Member Summary

Fields

```
public static final Copyrightxxxix
public static final Datexxxix
public static final Numberxxxix
public static final Releasexxxix
public static final Titlexxxix
public static final Versionxxxix
```

Copyright

```
public static final java.lang.String Copyright
```

Date

```
public static final java.lang.String Date
```

Number

```
public static final java.lang.String Number
```

Release

```
public static final java.lang.String Release
```

Title

```
public static final java.lang.String Title
```

Version

```
public static final java.lang.String Version
```







Almanac

Configuration

com.rmiproxy

Object





↳ Configuration

	String ConfigFile
	Configuration current ()
	String getNonProxyHosts ()
	String getProxyHost ()
	boolean isNonProxyHost (String host)

Firewall

com.rmiproxy

Firewall




	int JRMP_PROXY_PORT
	String NonProxyHostsPropertyName
	String PolicyFileName
	String ProxyHostPropertyName

FirewallException

com.rmiproxy

Object

↳ Throwable java.io.Serializable
↳ Exception
↳ java.io.IOException
↳ java.rmi.RemoteException
↳ FirewallException

	FirewallException ()
	FirewallException (String msg)
	FirewallException (String msg, Exception detail)

LocateProxyRegistry

com.rmiproxy.registry

Object

↳LocateProxyRegistry

1.1	☐	java.rmi.regis-	createRegistry (int port)	throws java.rmi.RemoteException
1.2	☐	try.Registry	createRegistry (int port, java.rmi.server.RMIClientSocketFactory csf, java.rmi.server.RMIServerSocketFactory ssf)	throws java.rmi.RemoteException
1.1	☐	ProxyRegistry	getRegistry ()	throws java.rmi.RemoteException, java.rmi.NotBoundException
1.1	☐	ProxyRegistry	getRegistry (int port)	throws java.rmi.RemoteException, java.rmi.NotBoundException
1.1	☐	ProxyRegistry	getRegistry (String host)	throws java.rmi.RemoteException, java.rmi.NotBoundException
1.1	☐	ProxyRegistry	getRegistry (String host, int port)	throws java.rmi.RemoteException, java.rmi.NotBoundException
1.2	☐	ProxyRegistry	getRegistry (String host, int port, java.rmi.server.RMIClientSocketFactory csf)	throws java.rmi.RemoteException, java.rmi.NotBoundException

ProxyNaming

com.rmiproxy

Object

↳ProxyNaming

☐		void bind (String name, java.rmi.Remote object)	throws java.rmi.RemoteException, java.rmi.AccessException, java.rmi.AlreadyBoundException, java.net.MalformedURLException
☐		String[] list (String name)	throws java.rmi.RemoteException, java.rmi.AccessException, java.net.MalformedURLException

```

❑ java.rmi.Remote lookup(String name)
    throws java.rmi.RemoteException,
    java.rmi.AccessException,
    java.rmi.NotBoundException,
    java.net.MalformedURLException
❑ void rebind(String name,
    java.rmi.Remote object)
    throws java.rmi.RemoteException,
    java.rmi.AccessException,
    java.net.MalformedURLException
❑ void unbind(String name)
    throws java.rmi.RemoteException,
    java.rmi.AccessException,
    java.rmi.NotBoundException,
    java.net.MalformedURLException
    
```

ProxyRegistry

com.rmiproxy.registry

ProxyRegistry

java.rmi.registry.Registry

```

void bind(String url,
    java.rmi.Remote object)
    throws java.rmi.RemoteException,
    java.rmi.AlreadyBoundException,
    java.rmi.AccessException
String[] list(String url)
    throws java.rmi.RemoteException,
    java.net.MalformedURLException,
    java.rmi.AccessException
java.rmi.Remote lookup(String url)
    throws java.rmi.RemoteException,
    java.rmi.NotBoundException,
    java.rmi.AccessException
void rebind(String url,
    java.rmi.Remote object)
    throws java.rmi.RemoteException,
    java.rmi.AccessException
void unbind(String url)
    throws java.rmi.RemoteException,
    java.rmi.NotBoundException,
    java.rmi.AccessException
    
```

ProxyRegistry.Abstract-Server

com.rmiproxy.registry

Object

- ↳ java.rmi.server.RemoteObject java.rmi.Remote, java.io.Serializable
- ↳ java.rmi.server.RemoteServer
- ↳ java.rmi.server.UnicastRemoteObject
- ↳ ProxyRegistry.AbstractServerProxyRegistry

```

* ProxyRegistry.AbstractServer(int port)
    throws java.rmi.RemoteException
* ProxyRegistry.AbstractServer(int port,
    java.rmi.server.RMIClientSocketFact
    ory csf,
    java.rmi.server.RMIServerSocketFact
    ory ssf)
    throws java.rmi.RemoteException
    
```

RegistryContext**com.rmiproxy.jndi**

Object

↳RegistryContext

javax.naming.Context, javax.naming.Refer-

enceable

```

Object addEnvironment(String propName,
                       Object propVal)
    throws javax.naming.NamingException
void bind(javax.naming.Name name,
          Object obj)
    throws javax.naming.NamingException
void bind(String name, Object obj)
    throws javax.naming.NamingException
void close()
javax.nam- composeName(javax.naming.Name name,
ing.Name   javax.naming.Name prefix)
    throws javax.naming.NamingException
String composeName(String name, String prefix)
    throws javax.naming.NamingException
javax.nam- createSubcontext(javax.naming.Name name
ing.Context )
    throws javax.naming.NamingException
javax.nam- createSubcontext(String name)
ing.Context throws javax.naming.NamingException
void destroySubcontext(javax.naming.Name name)
    throws javax.naming.NamingException
void destroySubcontext(String name)
    throws javax.naming.NamingException
void finalize()
java.util.Hash- getEnvironment()
table         throws javax.naming.NamingException
String getNameInNamespace()
javax.nam- getNameParser(javax.naming.Name name)
ing.NameParser throws javax.naming.NamingException
javax.nam- getNameParser(String name)
ing.NameParser throws javax.naming.NamingException
javax.nam- getReference()
ing.Reference  throws javax.naming.NamingException
javax.nam- list(javax.naming.Name name)
ing.NamingEnu- throws javax.naming.NamingException
meration
javax.nam- list(String name)
ing.NamingEnu- throws javax.naming.NamingException
meration
javax.nam- listBindings(javax.naming.Name name)
ing.NamingEnu- throws javax.naming.NamingException
meration
javax.nam- listBindings(String name)
ing.NamingEnu- throws javax.naming.NamingException
meration
Object lookup(javax.naming.Name name)
    throws javax.naming.NamingException
Object lookup(String name)
    throws javax.naming.NamingException
Object lookupLink(javax.naming.Name name)
    throws javax.naming.NamingException

```

```

Object lookupLink(String name)
    throws javax.naming.NamingException
void rebind(javax.naming.Name name,
    Object obj)
    throws javax.naming.NamingException
void rebind(String name, Object obj)
    throws javax.naming.NamingException
    RegistryContext(String host, int port,
        java.util.Hashtable env)
    throws javax.naming.NamingException
Object removeFromEnvironment(String propName)
    throws javax.naming.NamingException
void rename(javax.naming.Name oldName,
    javax.naming.Name newName)
    throws javax.naming.NamingException
void rename(String name, String newName)
    throws javax.naming.NamingException
String SECURITY_MGR
void unbind(javax.naming.Name name)
    throws javax.naming.NamingException
void unbind(String name)
    throws javax.naming.NamingException
    javax.naming.NamingException wrapRemoteException(java.rmi.RemoteException re)
    throws javax.naming.NamingException
    
```

RegistryContextFactory com.rmiproxy.jndi

Object
 ↳RegistryContextFactory javax.naming.spi.ObjectFactory, javax.naming.spi.InitialContextFactory

```

String ADDRESS_TYPE
    javax.naming.Context getInitialContext(java.util.Hashtable env)
    throws javax.naming.NamingException
Object getObjectInstance(Object ref,
    javax.naming.Name name,
    javax.naming.Context nameCtx,
    java.util.Hashtable env)
    throws javax.naming.NamingException
    RegistryContextFactory()
    
```

Version com.rmiproxy

```

Version
String Copyright
String Date
String Number
String Release
String Title
String Version
    
```


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