NSPortNameServer Class Reference

Cocoa > **Interapplication Communication**



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NSPortNameServer Class Reference

Inherits from NSObject

Conforms to NSObject (NSObject)

Framework /System/Library/Frameworks/Foundation.framework

Availability Available in Mac OS X v10.0 and later.

Companion guide Distributed Objects Programming Topics

Declared in NSPortNameServer.h

Overview

NSPortNameServer provides an object-oriented interface to the port registration service used by the distributed objects system. NSConnection objects use it to contact each other and to distribute objects over the network; you should rarely need to interact directly with an NSPortNameServer.

You get an NSPortNameServer object by using the systemDefaultPortNameServer (page 6) class method—never allocate and initialize an instance directly. With the default server object you can register an NSPort object under a given name, making it available on the network, and also unregister it so that it can't be looked up (although other applications that have already looked up the NSPort object can still use it until it becomes invalid). See the NSPort class specification for more information.

Tasks

Getting the Server Object

+ systemDefaultPortNameServer (page 6)

Returns the single instance of NSPortNameServer for the application.

Looking Up Ports

- portForName: (page 6)

Looks up and returns the port registered under the specified name on the local host.

- portForName:host: (page 7)

Looks up and returns the port registered under the specified name on a specified host.

Registering Ports

```
- registerPort:name: (page 7)
```

Makes a given port available on the network under a specified name.

- removePortForName: (page 8)

Unregisters the port for a given name on the local host.

Class Methods

systemDefaultPortNameServer

Returns the single instance of NSPortNameServer for the application.

+ (NSPortNameServer *)systemDefaultPortNameServer

Return Value

The single instance of NSPortNameServer for the application.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSPortNameServer.h

Instance Methods

portForName:

Looks up and returns the port registered under the specified name on the local host.

```
- (NSPort *)portForName:(NSString *)portName
```

Parameters

portName

The name of the desired port.

Return Value

The port associated with port Name on the local host. Returns nil if no such port exists.

Discussion

Invokes portForName: host: (page 7) with nil as the host name.

Availability

Available in Mac OS X v10.0 and later.

See Also

```
- portForName:host: (page 7)
```

Declared In

NSPortNameServer.h

portForName:host:

Looks up and returns the port registered under the specified name on a specified host.

- (NSPort *)portForName:(NSString *)portName host:(NSString *)hostName

Parameters

portName

The name of the desired port.

hostName

The name of the host. hostName is an Internet domain name (for example, "sales.anycorp.com"). If hostName is nil or empty, the local host is checked.

Return Value

The port associated with portName on the host hostName. Returns nil if no such port exists.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSPortNameServer.h

registerPort:name:

Makes a given port available on the network under a specified name.

- (BOOL)registerPort:(NSPort *)aPort name:(NSString *)portName

Parameters

aPort

The port to make available.

portName

The name for the port.

Return Value

YES if successful, NO otherwise (for example, if another NSPort object has already been registered under portName).

Discussion

A port can be registered under multiple names. If it is, it must be unregistered for each name with removePortForName: (page 8) to make it completely unavailable.

Availability

Available in Mac OS X v10.2 and later.

Declared In

NSPortNameServer.h

Instance Methods 2007-01-29 | © 2007 Apple Inc. All Rights Reserved.

removePortForName:

Unregisters the port for a given name on the local host.

- (BOOL)removePortForName:(NSString *)portName

Parameters

portName

The name of the port to unregister.

Return Value

YES if successful, otherwise NO.

Discussion

If the operation is successful, the port can no longer be looked up using the name portName. Other applications that already have a reference to the port can continue to use it until it becomes invalid.

Availability

Available in Mac OS X v10.0 and later.

Declared In

NSPortNameServer.h

Document Revision History

This table describes the changes to NSPortNameServer Class Reference.

Date	Notes
2007-01-29	Updated for Mac OS X v10.5.
2006-05-23	First publication of this content as a separate document.

REVISION HISTORY

Document Revision History

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Р

portForName: instance method 6
portForName:host: instance method 7

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registerPort:name: instance method 7
removePortForName: instance method 8

S

 $\verb|systemDefaultPortNameServer| \textbf{class method 6}|\\$