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# NSNetServiceBrowserDelegate Protocol Reference

Networking & Internet: Services & Discovery



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Apple Inc.  
1 Infinite Loop  
Cupertino, CA 95014  
408-996-1010

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# Contents

## **NSNetServiceBrowserDelegate Protocol Reference 5**

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Overview 5

Tasks 5

    Using Network Service Browsers 5

Instance Methods 6

    netServiceBrowser:didFindDomain:moreComing: 6

    netServiceBrowser:didFindService:moreComing: 6

    netServiceBrowser:didNotSearch: 7

    netServiceBrowser:didRemoveDomain:moreComing: 7

    netServiceBrowser:didRemoveService:moreComing: 8

    netServiceBrowserDidStopSearch: 8

    netServiceBrowserWillSearch: 9

## **Document Revision History 11**

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# NSNetServiceBrowserDelegate Protocol Reference

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|                            |   |
|----------------------------|---|
| <b>Conforms to</b>         | NSObject  |
| <b>Framework</b>           | /System/Library/Frameworks/Foundation.framework                       |
| <b>Availability</b>        | Available in iOS 4.0 and later.                                       |
| <b>Declared in</b>         | NSNetServices.h   |
| <b>Companion guides</b>    | Bonjour Overview<br>NSNetServices and CFNetServices Programming Guide |
| <b>Related sample code</b> | BonjourWeb  |

## Overview

The `NSNetServiceBrowserDelegate` protocol defines the optional methods implemented by delegates of `NSNetServiceBrowser` objects.

## Tasks

### Using Network Service Browsers

- [netServiceBrowser:didFindDomain:moreComing:](#) (page 6)  
Tells the delegate the sender found a domain.
- [netServiceBrowser:didRemoveDomain:moreComing:](#) (page 7)  
Tells the delegate the a domain has disappeared or has become unavailable.
- [netServiceBrowser:didFindService:moreComing:](#) (page 6)  
Tells the delegate the sender found a service.
- [netServiceBrowser:didRemoveService:moreComing:](#) (page 8)  
Tells the delegate a service has disappeared or has become unavailable.
- [netServiceBrowserWillSearch:](#) (page 9)  
Tells the delegate that a search is commencing.
- [netServiceBrowser:didNotSearch:](#) (page 7)  
Tells the delegate that a search was not successful.
- [netServiceBrowserDidStopSearch:](#) (page 8)  
Tells the delegate that a search was stopped.

## Instance Methods

### netServiceBrowser:didFindDomain:moreComing:

Tells the delegate the sender found a domain.

```
- (void)netServiceBrowser:(NSNetServiceBrowser *)netServiceBrowser
  didFindDomain:(NSString *)domainName moreComing:(BOOL)moreDomainsComing
```

#### Parameters

*netServiceBrowser*

Sender of this delegate message.

*domainName*

Name of the domain found by *netServiceBrowser*.

*moreDomainsComing*

YES when *netServiceBrowser* is waiting for additional domains. NO when there are no additional domains.

#### Discussion

The delegate uses this message to compile a list of available domains. It should wait until *moreDomainsComing* is NO to do a bulk update of user interface elements.

#### Availability

Available in iOS 2.0 and later.

Available as part of an informal protocol prior to iOS 4.0.

#### See Also

- `searchForBrowsableDomains` (NSNetServiceBrowser)
- `searchForRegistrationDomains` (NSNetServiceBrowser)

#### Declared In

NSNetServices.h

### netServiceBrowser:didFindService:moreComing:

Tells the delegate the sender found a service.

```
- (void)netServiceBrowser:(NSNetServiceBrowser *)netServiceBrowser
  didFindService:(NSNetService *)netService moreComing:(BOOL)moreServicesComing
```

#### Parameters

*netServiceBrowser*

Sender of this delegate message.

*netService*

Network service found by *netServiceBrowser*. The delegate can use this object to connect to and use the service.

*moreServicesComing*

YES when *netServiceBrowser* is waiting for additional services. NO when there are no additional services.

**Discussion**

The delegate uses this message to compile a list of available services. It should wait until *moreServicesComing* is NO to do a bulk update of user interface elements.

**Special Considerations**

If the delegate chooses to resolve *netService*, it should retain *netService* and set itself as that service's delegate. The delegate should, therefore, release that service when it receives the *netServiceDidResolveAddress:* or *netService:didNotResolve:* delegate messages of the *NSNetService* class.

**Availability**

Available in iOS 2.0 and later.

Available as part of an informal protocol prior to iOS 4.0.

**See Also**

- [searchForServicesOfType:inDomain:](#) (*NSNetServiceBrowser*)

**Declared In**

*NSNetServices.h*

**netServiceBrowser:didNotSearch:**

Tells the delegate that a search was not successful.

```
- (void)netServiceBrowser:(NSNetServiceBrowser *)netServiceBrowser
  didNotSearch:(NSDictionary *)errorInfo
```

**Parameters**

*netServiceBrowser*

Sender of this delegate message.

*errorInfo*

Dictionary with the reasons the search was unsuccessful. Use the dictionary keys *NSNetServicesErrorCode* and *NSNetServicesErrorDomain* to retrieve the error information from the dictionary.

**Availability**

Available in iOS 2.0 and later.

Available as part of an informal protocol prior to iOS 4.0.

**See Also**

- [netServiceBrowserWillSearch:](#) (page 9)

**Declared In**

*NSNetServices.h*

**netServiceBrowser:didRemoveDomain:moreComing:**

Tells the delegate the a domain has disappeared or has become unavailable.

```
- (void)netServiceBrowser:(NSNetServiceBrowser *)netServiceBrowser
  didRemoveDomain:(NSString *)domainName moreComing:(BOOL)moreDomainsComing
```

**Parameters***netServiceBrowser*

Sender of this delegate message.

*domainName*

Name of the domain that became unavailable.

*moreDomainsComing*YES when *netServiceBrowser* is waiting for additional domains. NO when there are no additional domains.**Discussion**

The delegate uses this message to compile a list of unavailable domains. It should wait until *moreDomainsComing* is NO to do a bulk update of user interface elements.

**Availability**

Available in iOS 2.0 and later.

Available as part of an informal protocol prior to iOS 4.0.

**Declared In**

NSNetServices.h

**netServiceBrowser:didRemoveService:moreComing:**

Tells the delegate a service has disappeared or has become unavailable.

```
- (void)netServiceBrowser:(NSNetServiceBrowser *)netServiceBrowser
  didRemoveService:(NSNetService *)netService moreComing:(BOOL)moreServicesComing
```

**Parameters***netServiceBrowser*

Sender of this delegate message.

*netService*

Network service that has become unavailable.

*moreServicesComing*YES when *netServiceBrowser* is waiting for additional services. NO when there are no additional services.**Discussion**

The delegate uses this message to compile a list of unavailable services. It should wait until *moreServicesComing* is NO to do a bulk update of user interface elements.

**Availability**

Available in iOS 2.0 and later.

Available as part of an informal protocol prior to iOS 4.0.

**Declared In**

NSNetServices.h

**netServiceBrowserDidStopSearch:**

Tells the delegate that a search was stopped.



- (void)netServiceBrowserDidStopSearch:(NSNetServiceBrowser \*)*netServiceBrowser*

#### Parameters

*netServiceBrowser*

Sender of this delegate message.

#### Discussion

When *netServiceBrowser* receives a stop message from its client, *netServiceBrowser* sends a `netServiceBrowserDidStopSearch:` message to its delegate. The delegate then performs any necessary cleanup.

#### Availability

Available in iOS 2.0 and later.

Available as part of an informal protocol prior to iOS 4.0.

#### See Also

- `stop` (NSNetServiceBrowser)

#### Declared In

NSNetServices.h

## netServiceBrowserWillSearch:

Tells the delegate that a search is commencing.

- (void)netServiceBrowserWillSearch:(NSNetServiceBrowser \*)*netServiceBrowser*

#### Parameters

*netServiceBrowser*

Sender of this delegate message.

#### Discussion

This message is sent to the delegate only if the underlying network layer is ready to begin a search. The delegate can use this notification to prepare its data structures to receive data.

#### Availability

Available in iOS 2.0 and later.

Available as part of an informal protocol prior to iOS 4.0.

#### See Also

- [netServiceBrowser:didNotSearch:](#) (page 7)

#### Declared In

NSNetServices.h



# Document Revision History

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This table describes the changes to *NSNetServiceBrowserDelegate Protocol Reference*.

| Date       | Notes   |
|------------|---|
| 2010-03-22 | New document that describes the protocol that defines the methods for delegates of NSNetServiceBrowser objects. |

## REVISION HISTORY

### Document Revision History