

[Network Extension](#) / NEURLFilterControlProvider

## Protocol

# NEURLFilterControlProvider

A protocol that defines an object that's responsible for fetching pre-filter data.

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+ | macOS 26.0+

```
protocol NEURLFilterControlProvider : AppExtension
```

## Overview

Create a class that conforms to this protocol in your app extension, then provide the extension's bundle identifier to the [NEURLFilterManager](#) in [setConfiguration\(pirServerURL:pirPrivacyPassIssuerURL:pirAuthenticationToken:controlProviderBundleIdentifier:\)](#).

## Topics

### Starting and stopping the provider

```
func start() async throws
```

Prepares the filter to start, in response to a call from the framework.

**Required**

```
func stop(reason: NEProviderStopReason) async throws
```

Prepares the filter to stop, in response to a call from the framework.

**Required**

## Fetching a prefilter

```
func fetchPrefilter(existingPrefilterTag: String?) async throws -> NEURLFilterPrefilter?
```

Fetches prefilter data, in response to a call from the framework.

Required

```
struct NEURLFilterPrefilter
```

A structure containing a prefilter returned by a filter control provider.

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## Relationships

### Inherits From

AppExtension

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### See Also

#### URL filters

```
class NEURLFilterManager
```

A class you use to configure and control a URL filter.

```
class NEURLFilterControlProviderConfiguration
```

A class that defines app extension configurations for the URL Filter control provider app extension.

```
class NEURLFilter
```

A class used to voluntarily validate URLs for apps that don't use WebKit or the URL session API.

{ } Filtering traffic by URL

Perform fast and robust filtering of full URLs by managing URL filtering configurations.