API Collection

Hotspot helper

Integrate your app with the iOS hotspot network subsystem.

Overview

`NEHotspotHelper` allows your app to participate in the process of authenticating with hotspot networks, that is, Wi-Fi networks where the user must interact with the network to gain access to the wider Internet. Hotspot helpers are only supported on iOS.

> **Important**
>
> `NEHotspotHelper` is *only* useful for hotspot integration. There are both technical and business restrictions that prevent it from being used for other tasks, such as accessory integration or Wi-Fi based location. Before using `NEHotspotHelper`, you must first be granted a special entitlement (`com.apple.developer.networking.HotspotHelper`) by Apple. For more information, see Hotspot Helper Request.

For more about creating a hotspot helper, see the Hotspot Network Subsystem Programming Guide.

Topics

Registration

~~class NEHotspotHelper~~

A class to register a hotspot helper.

Commands

`class` `NEHotspotHelperCommand`

A command for the hotspot helper to handle.

`class` `NEHotspotHelperResponse`

The hotspot helper's response to a command.

`class` `NEHotspotNetwork`

Information about a Wi-Fi network associated with a command or a response.

Hotspot communication

Hotspot helpers can use these APIs to communicate with the hotspot even when Wi-Fi is not the default route.

`func` `bind(to command: NEHotspotHelperCommand)`

Binds a URL request to the network interface associated with the hotspot helper command instance.

☰   In-Provider Networking

Network APIs for use by all types of NetworkExtension providers and by hotspot helpers.

Hotspot helper extension

Implement hotspot evaluation and authentication in an app extension for better performance and security.

`class` `NEHotspotManager`

A class that you use to enable or disable the hotspot evaluation and authentication provider extensions.

`protocol` `NEHotspotEvaluationProvider`

A protocol that defines methods and properties your extension implements to handle evaluate and filter scan list commands.

`protocol` `NEHotspotAuthenticationProvider`

A protocol that defines methods that your extension adopts to start and stop the extension, and to handle commands to authenticate with the hotspot network.

`class` `NEHotspotEvaluationProviderConfiguration`

A class that defines configuration options for use in NetworkExtension evaluation providers.

`class` `NEHotspotAuthenticationProviderConfiguration`

A class that defines configuration options for use in NetworkExtension authentication providers.

See Also

Wi-Fi management

:≡ Wi-Fi configuration

Add persistent Wi-Fi configurations, or temporarily move the device to a specific Wi-Fi network.

{} Configuring a Wi-Fi accessory to join a network

Associate an iOS device with an accessory's network to deliver network configuration information.