

[Wi-Fi Aware](#) / WAAccessCategory

Enumeration

WAAccessCategory

The underlying quality-of-service (QoS) the Wi-Fi layer uses to transmit data packets from a connection over the air.

iOS 26.0+ | iPadOS 26.0+

```
enum WAAccessCategory
```

Overview

A given `NetworkConnection` is bound to a single access category at the Wi-Fi layer, based on the configuration of `NWParameter`'s `serviceClass` property. This allows your app to specify how the Wi-Fi layer transmits the `NetworkConnection`'s data packets, selecting the performance characteristics that are relevant to the data flow.

Wi-Fi is a shared medium, so all Wi-Fi devices, networks, apps, and `NetworkConnections` share the overall Wi-Fi capacity between them. An app can improve the performance of its data flows, and that of all other nearby devices and Wi-Fi networks, by choosing the lowest QoS category that meets the requirements of each of its flows. When in doubt, use the default `.bestEffort` category.

For more information, refer to [NWParameters.ServiceClass](#) and [NWParameters](#).

Access categories are typically created by the system on behalf of the client, so they usually don't need to be instantiated directly.

Topics

Providing throughput

`case bestEffort`

A default quality-of-service (QoS) type that provides high throughput for data transfers of any size.

`case background`

A quality-of-service (QoS) type that provides high throughput for delay-tolerant, noninteractive data transfers of any size.

`case interactiveVideo`

A quality-of-service (QoS) type that provides low-latency for moderate throughput flows.

`case interactiveVoice`

A quality-of-service (QoS) type that provides very low-latency for low-throughput flows.

Relationships

Conforms To

`CaseIterable`

`Decodable`

`Encodable`

`Equatable`

`Hashable`

`Sendable`

`SendableMetatype`

See Also

Connection performance

`struct NWPath`

An object that contains information about the properties of the network that a connection uses, or that are available to your app.

`struct WAPath`

A representation of the current Wi-Fi Aware path.

`enum WAPerformanceMode`

The performance mode that indicates what performance criterion to prioritize.

`struct WAPerformanceReport`

The current performance state of the data path.