Structure

WAPerformanceReport

The current performance state of the data path.

iOS 26.0+ | iPadOS 26.0+

```
struct WAPerformanceReport
```

Topics

Reporting the data collection time

`let timestamp: Date`

The time that the framework generates the report.

`let localTimestamp: ContinuousClock.Instant`

The time the report was generated, using a local monotonically increasing clock.

Getting the throughput metrics

`let throughputCeiling: Double?`

The highest throughput the connection is capable of under ideal conditions, given the hardware capabilities of both devices.

`let throughputCapacity: Double?`

The current estimated average throughput capacity of the data path, given the current radio conditions and concurrent Wi-Fi use cases.

`var throughputCapacityRatio: Double?`

The current normalized ratio of the throughput capacity and throughput ceiling.

Getting the latency metrics

`let transmitLatency: [WAAccessCategory : WAPerformanceReport.TransmitLatencyMetrics]`

The measured transmit latency per access category that is in use with the remote devices and that the system can measure.

`struct TransmitLatencyMetrics`

A report of the transmit latency to the specified peer.

Getting the radio metrics

`let signalStrength: Double?`

The current signal strength of the remote device.

Relationships

Conforms To

`Decodable`
`Encodable`
`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.

`enum WAAccessCategory`

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