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Class

NetworkListener

Listen for incoming network connections.

iOS 26.0+ | iPadOS 26.0+ | Mac Catalyst 26.0+ | macOS 26.0+ | tvOS 26.0+ | visionOS 26.0+ | watchOS 26.0+

```
final class NetworkListener<ApplicationProtocol> where Application  
Protocol : NetworkProtocolOptions
```

Overview

A listener receives incoming connections by binding to a local endpoint. It accepts connections based on the protocols defined in its protocol stack. Accepted connections will represent new local and remote address and port tuples.

Topics

Initializers

```
convenience init(for: (any ListenerProvider)?, using: () -> Application  
Protocol) throws
```

Create a listener that advertises a service with a protocol stack to use for listening.

```
convenience init(for: (any ListenerProvider)?, using: NWParameters  
Builder<ApplicationProtocol>) throws
```

Create a listener that advertises a service with a protocol stack and parameters to use for listening.

Instance Properties

```
var newConnectionLimit: Int
```

Configure the listener's new connection limit.

```
var port: NWEndpoint.Port?
```

The port that the listener is listening on.

```
var service: NWListener.Service?
```

An optional service to advertise with the listener.

Instance Methods

```
func newConnectionLimit(Int) -> Self
```

Configure the listener's new connection limit.

```
func onServiceRegistrationUpdate((NetworkListener<ApplicationProtocol>, NetworkListener<ApplicationProtocol>.ServiceRegistrationChange) -> Void) -> Self
```

Set a closure to be called when the listener has added or removed a registered service.

```
func onStateUpdate((NetworkListener<ApplicationProtocol>, NetworkListener<ApplicationProtocol>.State) -> Void) -> Self
```

Set a closure to be called when the listener's state changes.

```
func run((NetworkConnection<ApplicationProtocol>) async throws -> Void) async throws
```

Run the listener and receive incoming multiplexed connections.

```
func run((NetworkConnection<ApplicationProtocol>) async throws -> Void) async throws
```

Run the listener and receive incoming connections.

Type Aliases

```
typealias ServiceRegistrationUpdateHandler
```

```
typealias StateUpdateHandler
```

Enumerations

```
enum ServiceRegistrationChange
```

```
enum State
```

Relationships

Conforms To

CustomDebugStringConvertible, Sendable, SendableMetatype