

[HummingbirdHTTP2](#) / HTTP2UpgradeChannel

## Structure

# HTTP2UpgradeChannel

Child channel for processing HTTP1 with the option of upgrading to HTTP2 via ALPN

```
struct HTTP2UpgradeChannel
```

## Topics

## Structures

struct Value

## Initializers

```
init(tlsChannelConfiguration: TLSChannelConfiguration, configuration: Configuration, responder: HTTPChannelHandler.Responder) throws
```

Initialize HTTP2UpgradeChannel

```
init(tlsConfiguration: TLSConfiguration, additionalChannelHandlers: () -> [any RemovableChannelHandler], responder: HTTPChannelHandler.Responder) throws
```

Initialize HTTP2Channel

Deprecated

`init(tlsConfiguration: TLSConfiguration, configuration: Configuration, responder: HTTPChannelHandler.Responder)` throws `Initialize HTTP2UpgradeChannel`

## Instance Properties

```
let configuration: Configuration  
var responder: Responder
```

## Instance Methods

```
func handle(value: Value, logger: Logger) async  
    handle messages being passed down the channel pipeline  
  
func setup(channel: Channel, logger: Logger) -> EventLoopFuture<Value>  
    Setup child channel for HTTP1 with HTTP2 upgrade
```

## Type Aliases

```
typealias Configuration
```

## Default Implementations

- ☰ HTTPChannelHandler Implementations
- ☰ ServerChildChannel Implementations

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## Relationships

### Conforms To

## HTTPChannelHandler, ServerChildChannel, Swift.Sendable

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## See Also

### Server

```
static func http2Upgrade(tlsConfiguration: TLSConfiguration,  
configuration: HTTP2UpgradeChannel.Configuration) throws ->  
HTTPServerBuilder
```

Build HTTP channel with HTTP2 upgrade

```
static func http2Upgrade(tlsChannelConfiguration: TLSChannel  
Configuration, configuration: HTTP2UpgradeChannel.Configuration)  
throws -> HTTPServerBuilder
```

Build HTTP channel with HTTP2 upgrade

```
static func plaintextHTTP2(configuration: HTTP2Channel.Configuration  
) -> HTTPServerBuilder
```

Build plaintext HTTP2 channel

---

```
struct HTTP2Channel
```

Child channel for processing HTTP2