

[Apple CryptoKit](#) / HPKEPublicKeySerialization

Protocol

HPKEPublicKeySerialization

A type that HPKE uses to encode the public key.

iOS 17.0+ | iPadOS 17.0+ | Mac Catalyst 17.0+ | macOS 14.0+ | tvOS 17.0+ | visionOS 1.0+ | watchOS 10.0+

```
@preconcurrency
protocol HPKEPublicKeySerialization : Sendable
```

Topics

Initializers

```
init<D>(D, kem: HPKE.KEM) throws
```

Creates a public key from an encoded representation.

Required

Instance Methods

```
func hpkeRepresentation(kem: HPKE.KEM) throws -> Data
```

Creates an encoded representation of the public key.

Required

Relationships

Inherits From

Sendable, SendableMetatype

Inherited By

HPKEDiffieHellmanPublicKey, HPKEKEMPublicKey

Conforming Types

- Curve25519.KeyAgreement.PublicKey
- P256.KeyAgreement.PublicKey
- P384.KeyAgreement.PublicKey
- P521.KeyAgreement.PublicKey
- XWingMLKEM768X25519.PublicKey