Structure

AppTransaction

Information that represents the customer's purchase of the app, cryptographically signed by the App Store.

iOS 16.0+ | iPadOS 16.0+ | macOS 13.0+ | tvOS 16.0+ | visionOS 1.0+ | watchOS 9.0+

```
struct AppTransaction
```

Mentioned in

- Choosing a receipt validation technique
- Supporting business model changes by using the app transaction
- Validating receipts with the App Store

Overview

Related sessions from WWDC22

Session 10007: What's new with in-app purchase

Topics

Getting the signed app transaction

`static var shared: VerificationResult<AppTransaction>`

Gets the App Store-signed app transaction information for the app.

Getting the app transaction identifier

`var appTransactionID: String`

The unique identifier of the app download transaction.

Getting the environment

`let environment: AppStore.Environment`

The server environment that signs the app transaction.

`struct Environment`

Constants that represent the App Store server environment.

Getting app and version information

`let bundleID: String`

The bundle identifier that the app transaction applies to.

`let appVersion: String`

The app version that the app transaction applies to.

`let originalAppVersion: String`

The app version that the customer originally purchased from the App Store.

`let appID: UInt64?`

The unique identifier the App Store uses to identify the app.

`let appVersionID: UInt64?`

The number that the App Store uses to uniquely identify the version of the app.

Getting the original platform

`let originalPlatform: AppStore.Platform`

The platform on which the customer originally purchased the app.

`struct Platform`

Values that represent Apple platforms.

Getting purchase dates

`let originalPurchaseDate: Date`

The date the customer originally purchased the app from the App Store.

`let preorderDate: Date?`

The date the customer placed an order for the app before it's available in the App Store.

Verifying the app transaction

`let deviceVerification: Data`

The device verification value to use to verify whether the app transaction belongs to the device.

`let deviceVerificationNonce: UUID`

The UUID used to compute the device verification value.

`let signedDate: Date`

The date that the App Store signed the JWS app transaction.

Getting app transaction information in JSON format

`var jsonRepresentation: Data`

The JSON representation of the app transaction information.

Getting app transaction from the server

`static func refresh() async throws -> VerificationResult<AppTransaction>`

Gets the App Store-signed app transaction information from the App Store server.

Deprecated

~~`var originalPlatformStringRepresentation: String`~~

The string representation of the platform on which the customer originally purchased the app.

Deprecated

Relationships

Conforms To

`Copyable`
`CustomDebugStringConvertible`
`Equatable`
`Hashable`
`Sendable`
`SendableMetatype`

See Also

App transaction

Supporting business model changes by using the app transaction

Access the app transaction to determine when a customer purchased an app and the features to which they're entitled.