Structure

# Product.SubscriptionInfo.RenewalInfo

The renewal information for an auto-renewable subscription.

iOS 15.0+ | iPadOS 15.0+ | macOS 12.0+ | tvOS 15.0+ | visionOS 1.0+ | watchOS 8.0+

```
struct RenewalInfo
```

## Mentioned in

📄 Merchandising win-back offers in your app

📄 Supporting subscription offer codes in your app

📄 Testing failing subscription renewals and In-App Purchases

## Overview

`Product.SubscriptionInfo.RenewalInfo` provides information about the next subscription renewal period. Check the `state` to determine whether the subscription will be active (subscribed), expired, or in another state at the next renewal period.

## Topics

### Getting the environment

```
let environment: AppStore.Environment
```

The server environment that signs the renewal information for an auto-renewable subscription.

## Getting the transaction ID

`let originalTransactionID: UInt64`

The transaction identifier of the original purchase.

## Identifying the account

`var appAccountToken: UUID?`

The app account token you provided during the subscription purchase, if one exists.

`var appTransactionID: String`

The unique identifier of the app download transaction.

## Getting the product ID

`let currentProductID: String`

The subscription product ID that the customer is subscribed to.

## Getting subscription dates

`var recentSubscriptionStartDate: Date`

The earliest start date of a subscription in a series of auto-renewable subscription purchases that ignores all lapses of paid service shorter than 60 days.

`var renewalDate: Date?`

The UNIX time, in milliseconds, that the most recent auto-renewable subscription purchase expires.

## Getting the renewal or expiration state

`let state: Product.SubscriptionInfo.RenewalState`

The renewal state of the auto-renewable subscription.

`let autoRenewPreference: String?`

The product ID of the auto-renewable subscription that will automatically renew.

```
let willAutoRenew: Bool
```
A Boolean value that indicates whether the subscription automatically renews in the next period.

```
let expirationReason: Product.SubscriptionInfo.RenewalInfo.Expiration
Reason?
```
The reason the auto-renewable subscription expired.

```
struct ExpirationReason
```
The reasons for auto-renewable subscription expirations.

## Getting subscription offers

```
let offer: Transaction.Offer?
```
A subscription offer that applies to the transaction at the next renewal period.

```
struct Offer
```
The subscription offers that apply to a transaction.

```
let eligibleWinBackOfferIDs: [String]
```
An array of strings that represent identifiers of win-back offers that the customer is eligible to redeem, sorted with the best offers first.

## Getting the renewal price and currency

```
var renewalPrice: Decimal?
```
The renewal price of the auto-renewable subscription that renews at the next billing period.

```
var currency: Locale.Currency?
```
The currency of the subscription's renewal price.

## Getting billing status

```
let isInBillingRetry: Bool
```
A Boolean value that indicates whether an auto-renewable subscription is in the billing retry period.

```
let gracePeriodExpirationDate: Date?
```
The date the billing grace period expires for the auto-renewable subscription.

# Getting the price increase status

📄 **Managing Price Increases for Auto-Renewable Subscriptions**

Identify the price increase status for auto-renewable subscriptions in your app and on your server.

`let priceIncreaseStatus: Product.SubscriptionInfo.RenewalInfo.PriceIncreaseStatus`

The status that indicates whether the auto-renewable subscription is subject to a price increase.

`enum PriceIncreaseStatus`

Status values that indicate whether an auto-renewable subscription is subject to a price increase.

# Verifying subscription renewal information

`let deviceVerification: Data`

The device verification value to use to verify whether the renewal information belongs to the device.

`let deviceVerificationNonce: UUID`

The UUID to use to compute the device verification value.

`let signedDate: Date`

The date that the App Store signed the JWS renewal information.

# Getting subscription renewal info in JSON format

`var jsonRepresentation: Data`

The JSON representation of the subscription renewal information.

# Getting renewal information for Advanced Commerce API

`let advancedCommerceInfo: Product.SubscriptionInfo.RenewalInfo.AdvancedCommerceInfo?`

Renewal information for a subscription that uses the Advanced Commerce API.

`struct AdvancedCommerceInfo`

Renewal information for subscriptions that use the Advanced Commerce API.

## Deprecated

~~var environmentStringRepresentation: String~~

The string representation of the server environment that signs the renewal information for an auto-renewable subscription.

`Deprecated`

~~var offerID: String?~~

A string that identifies an offer applied to the next subscription period.

`Deprecated`

~~var offerType: Transaction.OfferType?~~

The subscription offer type for the next subscription period.

`Deprecated`

~~var currencyCode: String?~~

The three-letter ISO 4217 currency code for the price of the product.

`Deprecated`

~~var offerPaymentModeStringRepresentation: String?~~ `Deprecated`

~~var offerPeriodStringRepresentation: String?~~

The string representation of the subscription offer period applied to the next billing period.

`Deprecated`

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# Relationships

## Conforms To

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

# See Also

## Subscription status and renewal information

`struct` `Status`

The renewal status information for an auto-renewable subscription.

`typealias` `SubscriptionRenewalInfo`

Represents the renewal information for an auto-renewable subscription.

`struct` `RenewalState`

The renewal states of auto-renewable subscriptions.

`typealias` `SubscriptionRenewalState`

The renewal states of auto-renewable subscriptions.

`typealias` `SubscriptionPeriod`

Represents the duration of time between subscription renewals.