Web Service

Advanced Commerce API

Support In-App Purchases through the App Store for exceptionally large catalogs of custom one-time purchases, subscriptions, and subscriptions with optional add-ons.

Advanced Commerce API 1.0+

Overview

Use this framework to offer an exceptionally large catalog of one-time purchases, subscriptions, and subscriptions with optional add-ons while using the App Store commerce system. Apps that use this API host and manage their own catalog of In-App Purchases, or SKUs. The App Store commerce system handles the end-to-end payment processing, global distribution, tax support, and customer service.

You can use the Advanced Commerce API and the StoreKit In-App Purchase API in the same app. Both APIs use the App Store commerce system, including the same signed JWS transactions and JWS renewal info. For products that you offer using the In-App Purchase API, you set up product identifiers in App Store Connect. For products that you offer using the Advanced Commerce API, you host and manage your own catalog of SKUs and add product details dynamically at runtime. For complete setup information, see Setting up your project for Advanced Commerce API.

Advanced Commerce API features are available through requests you make using StoreKit in your app and endpoint requests from your server. To authorize these requests, you generate JSON Web Tokens (JWTs). The App Store Server Library provides a client that makes it easier to create JWTs to authorize calls. For more information about the library, see Simplifying your implementation by using the App Store Server Library. For more information about authorizing calls, see Authorizing API requests from your server.

Your server must support the Transport Layer Security (TLS) protocol 1.2 or later to call the Advanced Commerce API.

> **Important**
>
> To learn more about eligibility and apply for access to the Advanced Commerce API, see
> Advanced Commerce API. For more about eligibility and to apply for access to the Mini Apps
> Partner Program, see Mini Apps Partner Program.

Topics

Essentials

📄 Setting up your project for Advanced Commerce API

Configure your app in App Store Connect, set up your server, and prepare your SKUs.

📄 Setting up a link to manage subscriptions

Create a deep link to a subscription-management page for your app.

📄 Advanced Commerce API changelog

Learn about new features and updates in the Advanced Commerce API.

API authorization and rate limits

📄 Authorizing API requests from your server

Create JSON Web Tokens (JWTs) to authorize Advanced Commerce requests from your server.

📄 Identifying rate limits for Advanced Commerce APIs

Recognize and handle the rate limits that apply to Advanced Commerce API endpoints.

Generic product IDs and SKUs

📄 Setting up generic product identifiers

Configure the generic product IDs in App Store Connect that the Advanced Commerce API requires.

📄 Creating SKUs for your In-App Purchases

Define and manage one-time charges, subscriptions, and bundled subscriptions within your app.

📄 Creating SKUs for the Mini Apps Partner Program

Define display names and SKUs for one-time charges and subscriptions in the Mini Apps Partner Program.

Tax codes and pricing

📄 Specifying prices for Advanced Commerce SKUs

Provide prices for SKUs with the supported number of decimal places, in milliunits of currency.

📄 Choosing tax codes for your SKUs

Select a tax code for each SKU that represents a product your app offers as an in-app purchase.

📄 Handling subscription price changes

Provide necessary customer communications to notify and gather applicable consent before you initiate a price change.

In-app API requests

📄 Sending Advanced Commerce API requests from your app

Send Advanced Commerce API requests from your app that you authorize with a JSON Web Signature (JWS) you generate on your server.

📄 Generating JWS to sign App Store requests

Create signed JSON Web Signature (JWS) strings on your server to authorize your API requests in your app.

One-time charge creation in the app

object `OneTimeChargeCreateRequest`

The request data your app provides when a customer purchases a one-time-charge product.

object `OneTimeChargeItem`

The details of a one-time charge product, including its display name, price, SKU, and metadata.

Subscription creation in the app

object `SubscriptionCreateRequest`

The request data your app provides when a customer purchases an auto-renewable subscription.

object `SubscriptionCreateItem`

The data that describes a subscription item.

Subscription modification in the app

object `SubscriptionModifyInAppRequest`

The request data your app provides to make changes to an auto-renewable subscription.

object `SubscriptionModifyAddItem`

The data your app provides to add items when it makes changes to an auto-renewable subscription.

object `SubscriptionModifyChangeItem`

The data your app provides to change an item of an auto-renewable subscription.

object `SubscriptionModifyRemoveItem`

The data your app provides to remove an item from an auto-renewable subscription.

object `SubscriptionModifyPeriodChange`

The data your app provides to change the period of an auto-renewable subscription.

Subscription reactivation in the app

object `SubscriptionReactivateInAppRequest`

The request your app provides to reactivate a subscription that has automatic renewal turned off.

object `SubscriptionReactivateItem`

An item in a subscription to reactive.

Subscription price change from the server

`Change Subscription Price`

Increase or decrease the price of an auto-renewable subscription, a bundle, or individual items within a subscription at the next renewal.

object `SubscriptionPriceChangeRequest`

The request body you use to change the price of an auto-renewable subscription.

object SubscriptionPriceChangeResponse

    A response that contains signed JWS renewal and JWS transaction information after a subscription price change request.

Subscription cancellation from the server

Cancel a Subscription

    Turn off automatic renewal to cancel a customer's auto-renewable subscription.

object SubscriptionCancelRequest

    The request body for turning off automatic renewal of a subscription.

object SubscriptionCancelResponse

    The response body for a successful subscription cancellation.

Subscription revocation from the server

Revoke Subscription

    Immediately cancel a customer's subscription and all the items that are included in the subscription, and request a full or prorated refund.

object SubscriptionRevokeRequest

    The request body you provide to terminate a subscription and all its items immediately.

object SubscriptionRevokeResponse

    The response body for a successful revoke-subscription request.

Refund request from the server

Request Transaction Refund

    Request a refund for a one-time charge or subscription transaction.

object RequestRefundRequest

    The request body for requesting a refund for a transaction.

object RequestRefundResponse

    The response body for a transaction refund request.

object RequestRefundItem

Information about the refund request for an item, such as its SKU, the refund amount, reason, and type.

Subscription metadata changes from the server

Change Subscription Metadata

Update the SKU, display name, and description associated with a subscription, without affecting the subscription's billing or its service.

object SubscriptionChangeMetadataRequest

The request body you provide to change the metadata of a subscription.

object SubscriptionChangeMetadataResponse

The response body for a successful subscription metadata change.

object SubscriptionChangeMetadataDescriptors

The subscription metadata to change, specifically the description and display name.

object SubscriptionChangeMetadataItem

The metadata to change for an item, specifically its SKU, description, and display name.

Migration from the server

Migrate a Subscription to Advanced Commerce API

Migrate a subscription that a customer purchased through In-App Purchase to a subscription you manage using the Advanced Commerce API.

object SubscriptionMigrateRequest

The subscription details you provide to migrate a subscription from In-App Purchase to the Advanced Commerce API, such as descriptors, items, storefront, and more.

object SubscriptionMigrateResponse

A response that contains signed renewal and transaction information after a subscription successfully migrates to the Advanced Commerce API.

object SubscriptionMigrateItem

The SKU, description, and display name to use for a migrated subscription item.

object SubscriptionMigrateRenewalItem

The item information that replaces a migrated subscription item when the subscription renews.

`object` **SubscriptionMigrateDescriptors**

The description and display name of the subscription to migrate to that you manage.

Objects and types

☰ Data types

Objects and data types for the Advanced Commerce API.

Signed transaction information

`type` **JWSRenewalInfo**

Subscription renewal information signed by the App Store, in JSON Web Signature (JWS) format.

`type` **JWSTransaction**

Transaction information signed by the App Store, in JSON Web Signature (JWS) Compact Serialization format.

Error handling

☰ Error messages and codes

Error messages and codes for the Advanced Commerce API.