

iOS Application Distribution Guide

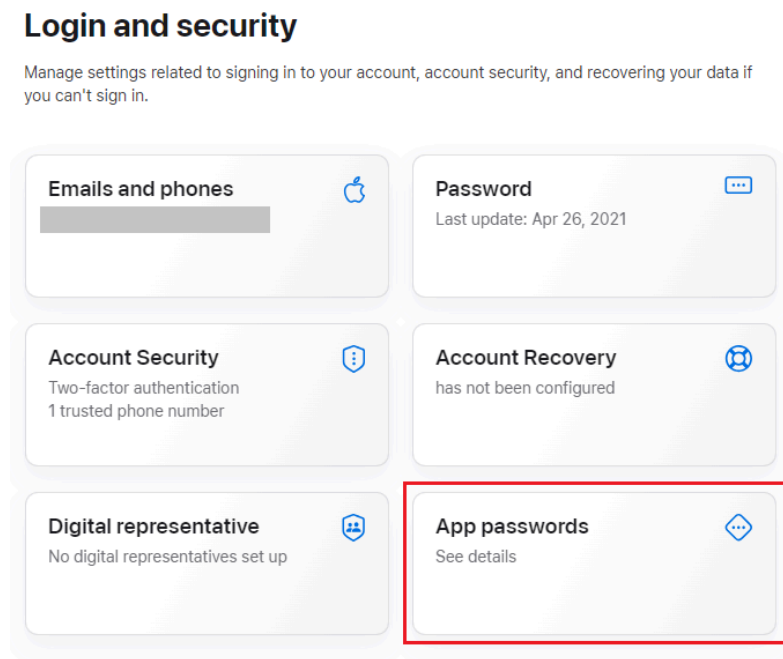
Data Collection for Signature

It is necessary to have a paid membership with Apple in order to distribute iOS applications. Depending on the membership, different types of [developer account](#) can be obtained.

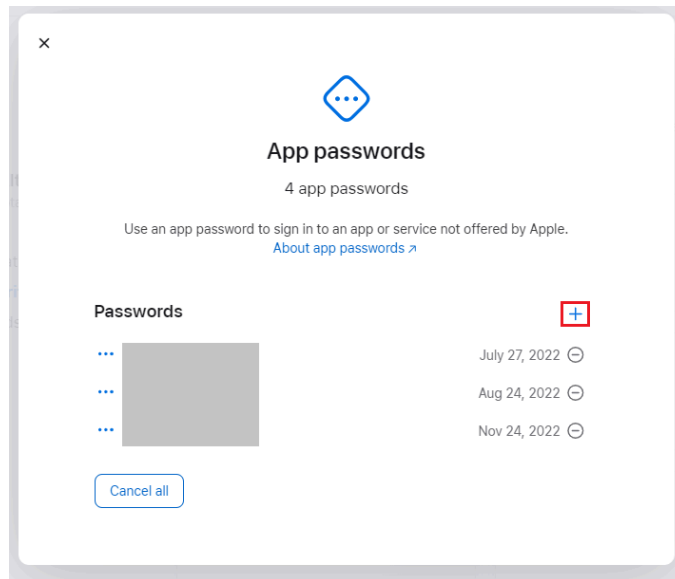
To create a new Apple developer account, go to <https://developer.apple.com/account>. As a result of the subscription, the registered email is used as the Apple ID identifier to access the developer account control panel and the Apple team identifier is obtained in the membership detail section.

To generate the password for Apple services it is necessary to access <https://appleid.apple.com/sign-in> and perform the following steps:

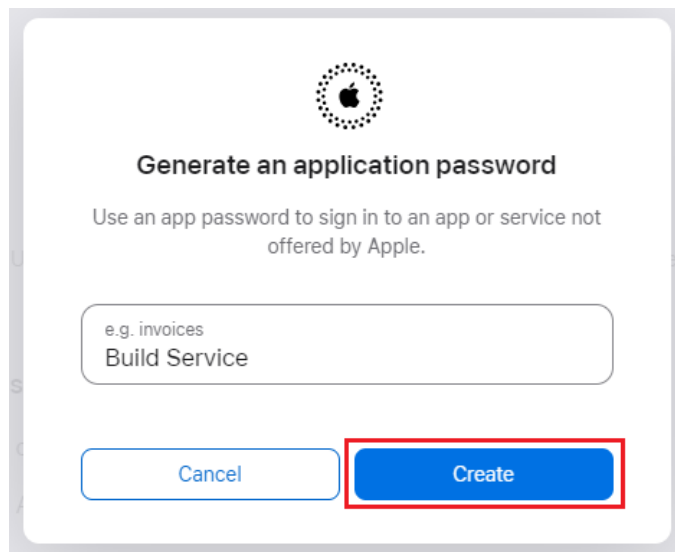
1. Enter “Application passwords”.



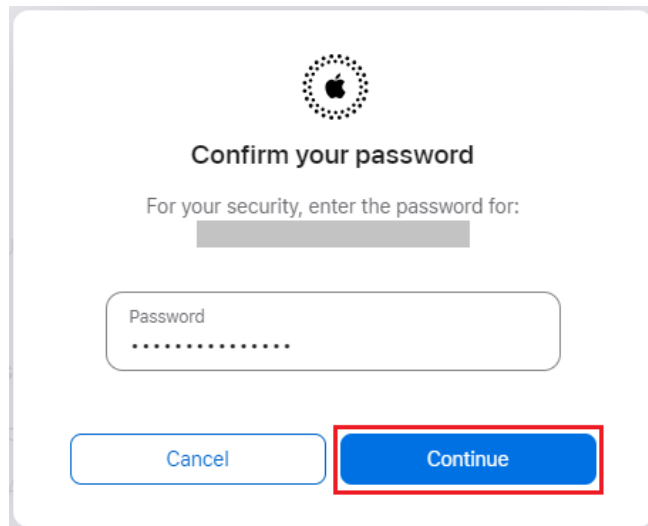
2. Create a new password.



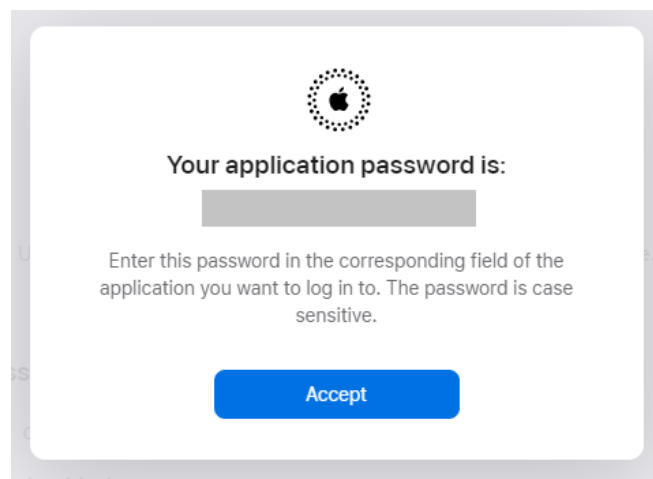
3. Give the password a descriptive name.



4. Enter the password associated with the Apple ID of the developer account.



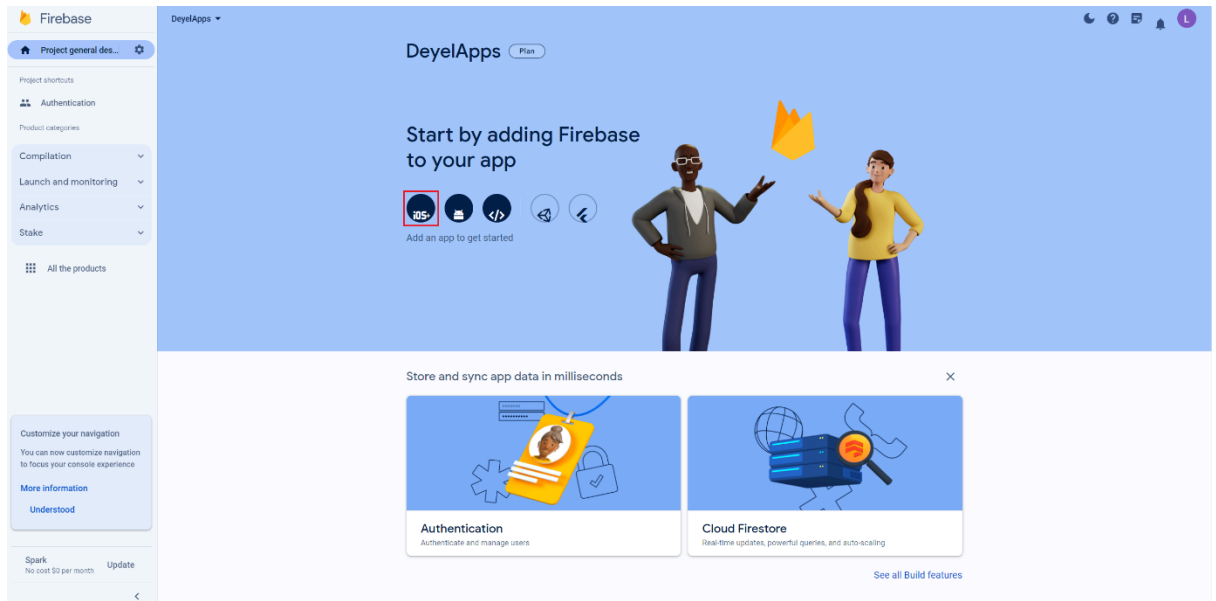
5. The developer receives the password for Apple services, which must be remembered as it cannot be retrieved later.



Collection of Google Services File

This configuration file allows integrating Google services, especially those that are part of Firebase and that are used for the use of “push” notifications in mobile applications. To obtain this file, the following steps must be followed:

1. Login to <https://console.firebase.google.com/>, create a new project (enable Google Analytics) and select the iOS logo to create a new application within the project.



2. Within the creation of a new application in the project created previously, perform the following steps:
 - a. Get the mobile application identifier from the [properties panel of the applications modeler of Deyel](#).
 - b. Enter the identifier in the iOS package name and click on the “Register app” button.

× Add Firebase to your Apple app

1 Register app

Apple Package ID ⓘ
como.deyel.app.myapp

App nickname (optional) ⓘ
My app for Apple

App Store ID (optional) ⓘ
123456789

Register app

2 Download configuration file

3 Add the Firebase SDK

4 Add initialization code

5 Next steps

3. Once the application is created, download the “GoogleServices-info.plist” file in the project configuration.

Your apps

Add app

Apps for Android

com.deyel.app.myapp

Apple Apps

iOS com.deyel.app.myapp

SDK Configuration

Do you need to reconfigure the Firebase SDKs in your app? Review the SDK setup instructions or download the setup file with your app keys and IDs.

View SDK instructions

GoogleService-Info.plist

Creation of the Certificate and Provisioning Profile

Certificates identify who has signed an application or wants to use a service. They have a code signature to assure the user that an application comes from a trusted source and has not been modified since the certificate was requested. It is possible to create development and distribution certificates. Development certificates are used to run the application on test devices, and distribution certificates are used to distribute it to a limited group of devices or upload it to “App Store Connect”.

A provisioning profile authorizes the application to use certain services and ensures that the developer is known, that is, develops, uploads, or distributes the application. A provisioning profile contains a unique application identifier and a distribution certificate.

For more information on how to obtain an iOS provisioning profile and signing certificate, go to [certificate management](#) or how to [create profiles and distribution certificates](#).

Certificate Creation

To generate a distribution certificate in the [Apple developer panel](#), the following steps must be performed:

1. Register the Deyel mobile application identifier.
 - a. In the Apple Developer Center, select the option “Certificates, IDs” & Profiles” and then go to section “Identifiers”.
 - b. Enter in the bundle ID field the value of the “Application Identifier” property obtained from the [properties panel of the Deyel application modeler](#).
 - c. Select the “Push Notifications” item in the “Capabilities” section.

Certificates, Identifiers & Profiles

< All Identifiers

Register an App ID

Back Continue

Platform
iOS, iPadOS, macOS, tvOS, watchOS, visionOS

App ID Prefix
P8VX26FP75 (Team ID)



Description

Bundle ID Explicit Wildcard

You cannot use special characters such as @, &, *, "

We recommend using a reverse-domain name style string (i.e., com.domainname.appname). It cannot contain an asterisk (*).





Capabilities App Services

ENABLE	NAME	NOTES
<input type="checkbox"/>	 5G Network Slicing ⓘ	
<input type="checkbox"/>	 Access Wi-Fi Information ⓘ	

< All Identifiers

Register an App ID

Back Continue

<input type="checkbox"/>	 On Demand Install Capable for App Clip Extensions ⓘ	
<input type="checkbox"/>	 Personal VPN ⓘ	
<input checked="" type="checkbox"/>	 Push Notifications ⓘ	
<input type="checkbox"/>	 Push to Talk ⓘ	

2. Before creating the Apple certificate, a certificate signing request file must be generated. This file can be created on Mac OSX using the “Keychain Access” application and on other operating systems using OpenSSL in the command line interface.

- a. Generate a private key with the following command.
`openssl genrsa -out keyname.key 2048`
- b. Generate a file with “.csr” extension in the current working directory by executing the following command.
`openssl req -new -key keyname.key -out CertificateSigningRequest.certSigningRequest`

The questions requested by the command must be answered and a password should be defined when requested. This entered password should be remembered as it will be used in the configuration of the “Certificate Password” property in the [properties of the Deyel environment](#).

3. Click on “Create a new certificate” in the [Apple developer panel](#).

Certificates, Identifiers & Profiles

Certificates	Certificates	Q All Types ▾			
Identifiers	NAME ▾	TYPE	PLATFORM	CREATED BY	EXPIRATION
Devices		Distribution Managed	All		2023/05/13
Profiles		Distribution	All		2023/05/16
Keys					
Services					

4. Select the “Apple Distribution” option.

Certificates, Identifiers & Profiles

[← All Certificates](#)

Create a New Certificate

[Continue](#)

Software

- Apple Development**
Sign development versions of your iOS, macOS, tvOS, and watchOS apps. For use in Xcode 11 or later.
- Apple Distribution**
Sign your apps for submission to the App Store or for Ad Hoc distribution. For use with Xcode 11 or later.
- iOS App Development**
Sign development versions of your iOS app.
- iOS Distribution (App Store and Ad Hoc)**
Sign your iOS app for submission to the App Store or for Ad Hoc distribution.
- Mac Development**
Sign development versions of your Mac app.
- Mac App Distribution**
This certificate is used to code sign your app and configure a Distribution Provisioning Profile for submission to the Mac App Store.
- Mac Installer Distribution**
This certificate is used to sign your app's Installer Package for submission to the Mac App Store.
- Developer ID Installer**
This certificate is used to sign your app's Installer Package for distribution outside of the Mac App Store.
- Developer ID Application**
This certificate is used to code sign your app for distribution outside of the Mac App Store.

5. Upload the file with the extension “.certSigningRequest” created in step 2.

Certificates, Identifiers & Profiles

[← All Certificates](#)

Create a New Certificate

[Back](#)

[Continue](#)

Upload a Certificate Signing Request

To manually generate a Certificate, you need a Certificate Signing Request (CSR) file from your Mac. [Learn more >](#)

[Choose File](#)

ios.certSigningRequest

- By clicking the “Continue” button. Apple signs the file with the “.certSigningRequest” extension and the signed certificate is available for download.
- If a message saying that the certificate signing request is pending approval is received, it means that it does not have the required access rights.
- The certificate is created and ready to be downloaded as a file with the name "distribution.cer".

Certificates, Identifiers & Profiles

[← All Certificates](#)

Download Your Certificate

Download

Certificate Details

Certificate Name

[Redacted]

Certificate Type

Distribution

Download your certificate to your Mac, then double click the .cer file to install in Keychain Access. Make sure to save a backup copy of your private and public keys somewhere secure.

Expiration Date

2023/12/27

Created By


[Redacted]

Creation of the Provisioning Profile

To generate a provisioning profile for application distribution in the [Apple developer panel](#), the following steps should be taken:

- Click on “Create a new profile”.

Certificates, Identifiers & Profiles

Certificates	Profiles 	Search All Types All Platforms Edit		
Identifiers	NAME v	PLATFORM	TYPE	EXPIRATION
Devices	Deyel	iOS	App Store	2023/07/28
Profiles				
Keys				
Services				

- Select “Apple Store” to be able to upload to the application store or select “Ad Hoc” to distribute via QR code.

3. Select the application to associate with this profile using the corresponding “App ID”.

Certificates, Identifiers & Profiles

[< All Profiles](#)

Generate a Provisioning Profile

Back

Continue

Select Type > Configure > Generate > Download

Select an App ID

If you plan to use services such as Game Center, In-App Purchase, and Push Notifications, or want a Bundle ID unique to a single app, use an explicit App ID. Uploading apps to the App Store requires an explicit App ID. In the future, wildcard app IDs will no longer appear when creating an App Store provisioning profile.

App ID: 15 App IDs

My App ([redacted].com.deyel.app.myapp) X ▼

4. Select the previously created certificate to associate it with the profile.

Certificates, Identifiers & Profiles

[< All Profiles](#)

Generate a Provisioning Profile

Back

Continue

Select Type > Configure > Generate > Download

Select Certificates

Select the certificates you wish to include in this provisioning profile. To use this profile to install an app, the certificate the app was signed with must be included.

- [redacted] (iOS Distribution) Mar 13, 2024
- [redacted] (Distribution) For use in Xcode 11 or later Mar 14, 2024

5. Define a descriptive name for the profile and before generating the profile, validate that the field values correspond to those previously entered.

Certificates, Identifiers & Profiles

[< All Profiles](#)

Generate a Provisioning Profile

[Back](#)

[Generate](#)

[Select Type](#) > [Configure](#) > [Generate](#) > [Download](#)

Review, Name and Generate.

The name you provide will be used to identify the profile in the portal.

Provisioning Profile Name

My App

Type

App Store

App ID

My App([REDACTED].com.devel.app.myapp)


Certificates

1 Selected

- If distribution is via QR code, it is necessary to upload the devices that will be able to install and use the application. To do this, it is necessary to obtain the UUID (Universal Unique Identifier) of each device and register them in the "Devices" section, in the Apple developer panel. One way to get it is by scanning the QR code on the website [UUID](#).

Certificates, Identifiers & Profiles

Certificates

Devices  [All Types](#) [Edit](#)

Identifiers

NAME	IDENTIFIER	TYPE	STATUS
iphone 6s	[REDACTED]	iPhone	
iphone 8	[REDACTED]	iPhone	

Profiles

Keys

Services

Certificates, Identifiers & Profiles

[< All Devices](#)

Register a New Device

[Continue](#)



Register Devices

To create a provisioning profile for app testing and ad hoc distribution, you'll need to specify registered devices. If you use automatic signing, Xcode registers connected devices for you. Xcode Server can also be configured to register connected devices.

Note: If you remove a registered device from your account, it will continue to count against your device limit. At the start of your new membership year, Account Holders and Admins will be presented with the option to remove listed devices and restore the available device count.

Register a Device

Name your device and enter its Unique Device Identifier (UDID).

Platform

iOS, iPadOS, tvOS, watchOS, visionOS

Device Name

Device ID (UDID)

Register Multiple Devices

Upload a file containing the devices you wish to register. Please note that a maximum of 100 devices can be included in your file and it may take a few minutes to process.

[Download sample files](#)

Device List

[Choose File](#)

7. Finally, the provisioning profile is generated and it is possible to download it as a file with the “.mobileprovision” extension.

Certificates, Identifiers & Profiles

[< All Profiles](#)

Generate a Provisioning Profile

[Download](#)

Download and Install

Download and double click the following file to install your Provisioning Profile.

Name: My App

Type: App Store

App ID: [REDACTED].com.deyel.app.myapp

Expires: 2023/07/28

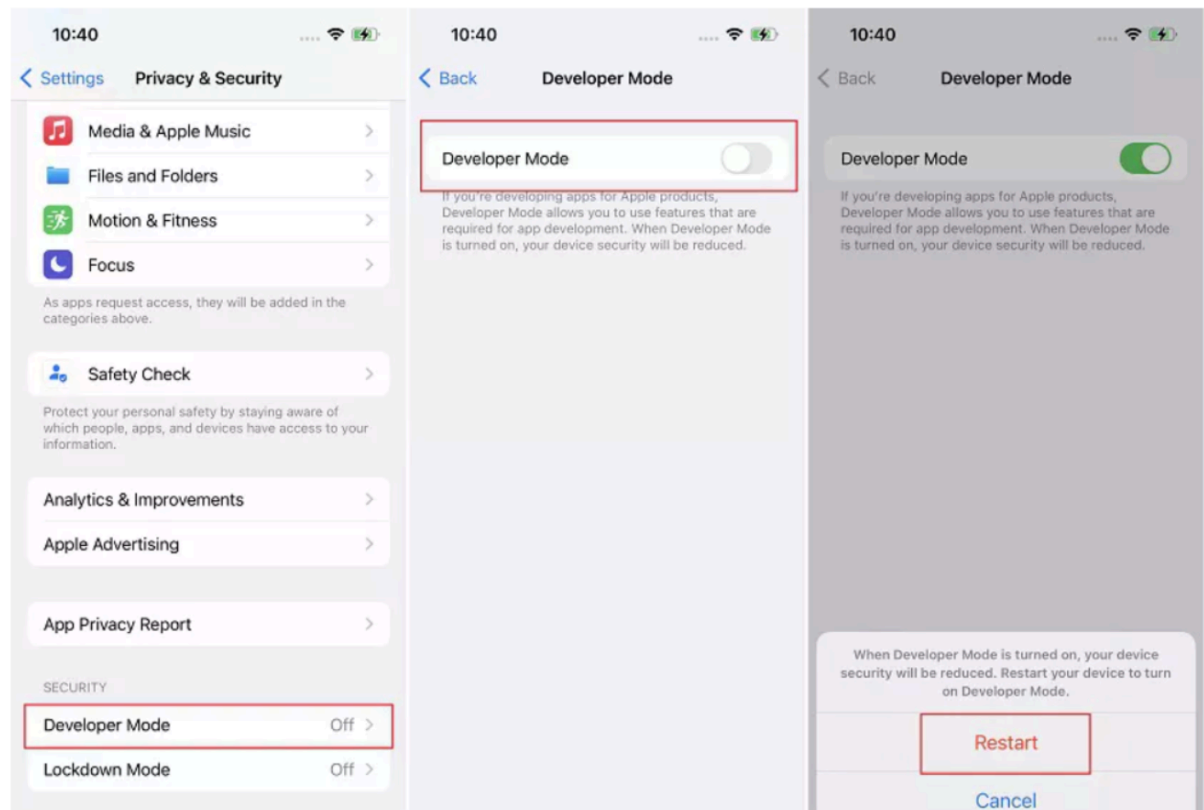
Mobile Application Distribution in Deyel

Each distribution option has different characteristics.

Distribution Via QR Code

For this option it is necessary to upload a distribution certificate and an “Ad Hoc” provisioning profile, as previously described in step 2 of the “Creation of the Provisioning Profile” section.

In order to install applications with this type of distribution, the device must have the “Developer Mode” enabled. To enable it, the following steps must be followed on such device:



Distribution Via Store

Once the [application building in the Deyel environment](#) is made. The tasks described below can be performed for a complete upload of the application to the store.

Tests with TestFlight

The application can be enabled in TestFlight, which is a service that allows to install and test apps before uploading them to the App Store, with the aim of conducting “beta” tests with a defined group of testers. To do this, it is necessary to perform the following steps:

1. Login to <https://appstoreconnect.apple.com/> with the username and password of the developer account and in the application panel, select the application created using its descriptive name, for example “iOS App”.

Apps + ⋮

i Apps for iOS on the Apple Vision Pro
All new and existing supported iOS apps may be available for vision



App iOS

1 iOS 1.0 In preparation for shipping

2. Within the application, go to the “TestFlight” tab to search for the uploaded application.

App iOS ⌵ [App Store](#) [Services](#) **TestFlight** [Xcode Cloud](#)

App for iOS 1.0 In preparation for shipping... **App for iOS Version 1.0** Keep Add to review

[Add platform](#) The product page for this version of the app will be published in the App Store with the components and metadata shown below. Spanish - Mexico ?

General information

- App information
- Price and availability
- App privacy
- Ratings and reviews
- Version history
- App review

Benefits

- In-app purchases
- Subscriptions
- App Store Promotions
- Custom product pages
- Events within the app
- Product Page Optimization

iOS Previews and Screenshots ?

Adding screenshots of new devices can help you more accurately represent your app's user experience in the App Store. Please note that we will use these screenshots for all iOS screen sizes and languages. Screenshots are only required for iOS apps.

[iPhone](#) [iPad](#) See all sizes in "Multimedia Resource Manager"

iPhone 6.7" screen iPhone 6.5" screen iPhone 5.5" screen

Drag up to 3 app previews and up to 10 screenshots here.
(1290 x 2796px o 2796 x 1290px)



Compilations

iOS

Comments

Mistakes

Screenshots

Internal tests +

You wish

External tests +

General information

Testing information

About TestFlight data ?

Builds for iOS

These are the builds that can be tested. [Learn more about flags and build statuses](#)

> **Version 8.1.0**

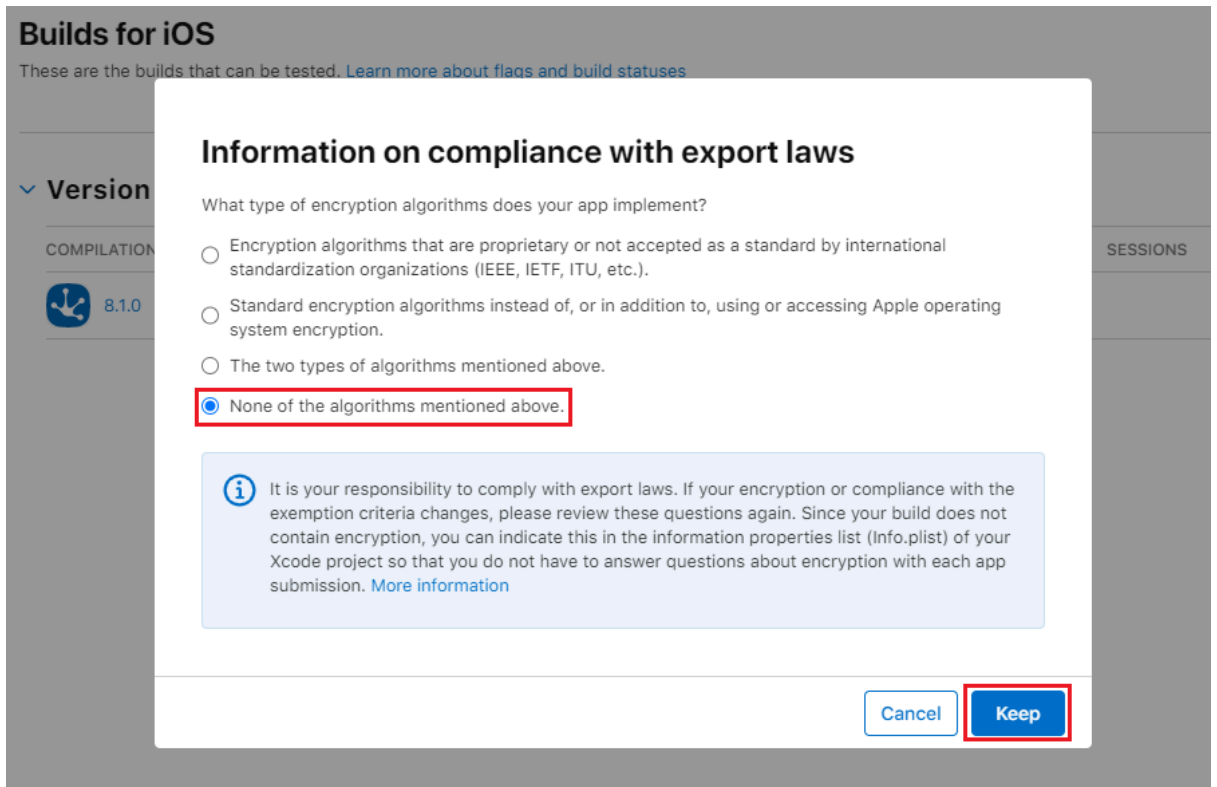
- To enable the application for review by testers, it is necessary to define a security validation on compliance with laws and regulations related to the export of the application.

Builds for iOS

These are the builds that can be tested. [Learn more about flags and build statuses](#)

▼ **Version 8.1.0**

COMPILATION	STATE	INVITATIONS	FACILITIES	SESSIONS	MISTAKES	COMMENTS
8.1.0	⚠ Missing export information Manage					



4. Once the application is enabled for review, it is necessary to define tester users.
 - a. Login to <https://appstoreconnect.apple.com/access/users> and define the users who should test the application.

There are two types of testers:

- i. Internal: users with an Apple developer account (free or paid).
 - ii. External: users who do not have an Apple developer account and want to test the application. They can be uploaded individually or in bulk (using a file with an extension “.csv”). To use this type of testers, it is necessary for the application to undergo review by the Apple team. This review may take 1 day.
- b. Within the “TestFlight” section, define the testers according to their type.

Compilations

iOS

Comments

Mistakes

Screenshots

Internal tests +

OP Optaris

External tests +

Builds for iOS

These are the builds that can be tested. [Le](#)

> **Version 8.1.0**

- c. Testers must install the TestFlight application from the device.
- d. Testers receive an invitation to access the application made available by the developer on App Store Connect. It is possible to invite testing via email or a public link. The trial lasts 90 days and then is disabled.

For detailed information consult [Beta testing with TestFlight](#).

Complete the Technical Data Sheet of the Application and Submit it for Review

If the tests are satisfactory, the technical data sheet of the mobile application can be completed and sent for review to the Apple team from the “App Store” tab within App Store Connect. If the review is correct, the application will automatically be available in the App Store. However, the review may lead to interaction with the Apple team, guided by the interface, to resolve issues that may arise.

For detailed information, refer to the [App Store Connect Guide](#).