

# VisionLabs LUNA SDK

Calculate application size for IOS

**Contents**

**Introduction** **3**

**Calculate application size for IOS** **4**

    Plans total size . . . . . 4

    Application size . . . . . 4

## Introduction

This document describes how to calculate the size of an IOS application created based on LUNA SDK.

## Calculate application size for IOS

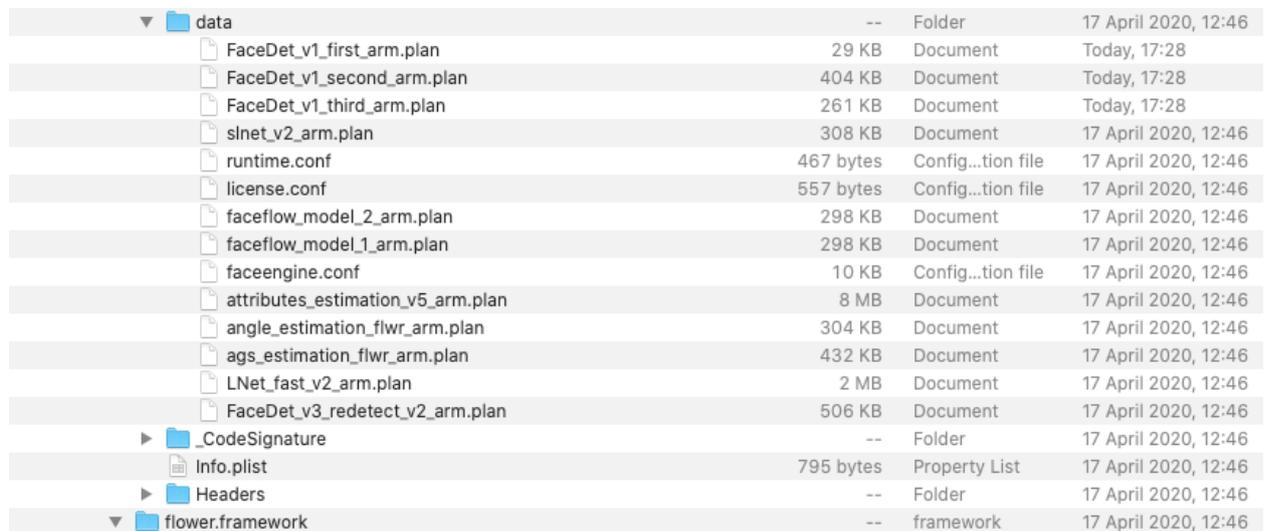
### Plans total size

The number of plans included in the SDK library depends on your particular case. The application size depends on the selected plans.

After you select all the required plans for your application, sum their sizes to find the total size of the plans.

You can find the plans in “fsdk.framework/data”.

In the picture below, you can see the plans selected for this example.



| Name                              | Size      | Type               | Modified             |
|-----------------------------------|-----------|--------------------|----------------------|
| data                              | --        | Folder             | 17 April 2020, 12:46 |
| FaceDet_v1_first_arm.plan         | 29 KB     | Document           | Today, 17:28         |
| FaceDet_v1_second_arm.plan        | 404 KB    | Document           | Today, 17:28         |
| FaceDet_v1_third_arm.plan         | 261 KB    | Document           | Today, 17:28         |
| slnet_v2_arm.plan                 | 308 KB    | Document           | 17 April 2020, 12:46 |
| runtime.conf                      | 467 bytes | Config...tion file | 17 April 2020, 12:46 |
| license.conf                      | 557 bytes | Config...tion file | 17 April 2020, 12:46 |
| faceflow_model_2_arm.plan         | 298 KB    | Document           | 17 April 2020, 12:46 |
| faceflow_model_1_arm.plan         | 298 KB    | Document           | 17 April 2020, 12:46 |
| faceengine.conf                   | 10 KB     | Config...tion file | 17 April 2020, 12:46 |
| attributes_estimation_v5_arm.plan | 8 MB      | Document           | 17 April 2020, 12:46 |
| angle_estimation_flwr_arm.plan    | 304 KB    | Document           | 17 April 2020, 12:46 |
| ags_estimation_flwr_arm.plan      | 432 KB    | Document           | 17 April 2020, 12:46 |
| LNet_fast_v2_arm.plan             | 2 MB      | Document           | 17 April 2020, 12:46 |
| FaceDet_v3_redetect_v2_arm.plan   | 506 KB    | Document           | 17 April 2020, 12:46 |
| _CodeSignature                    | --        | Folder             | 17 April 2020, 12:46 |
| Info.plist                        | 795 bytes | Property List      | 17 April 2020, 12:46 |
| Headers                           | --        | Folder             | 17 April 2020, 12:46 |
| flower.framework                  | --        | framework          | 17 April 2020, 12:46 |

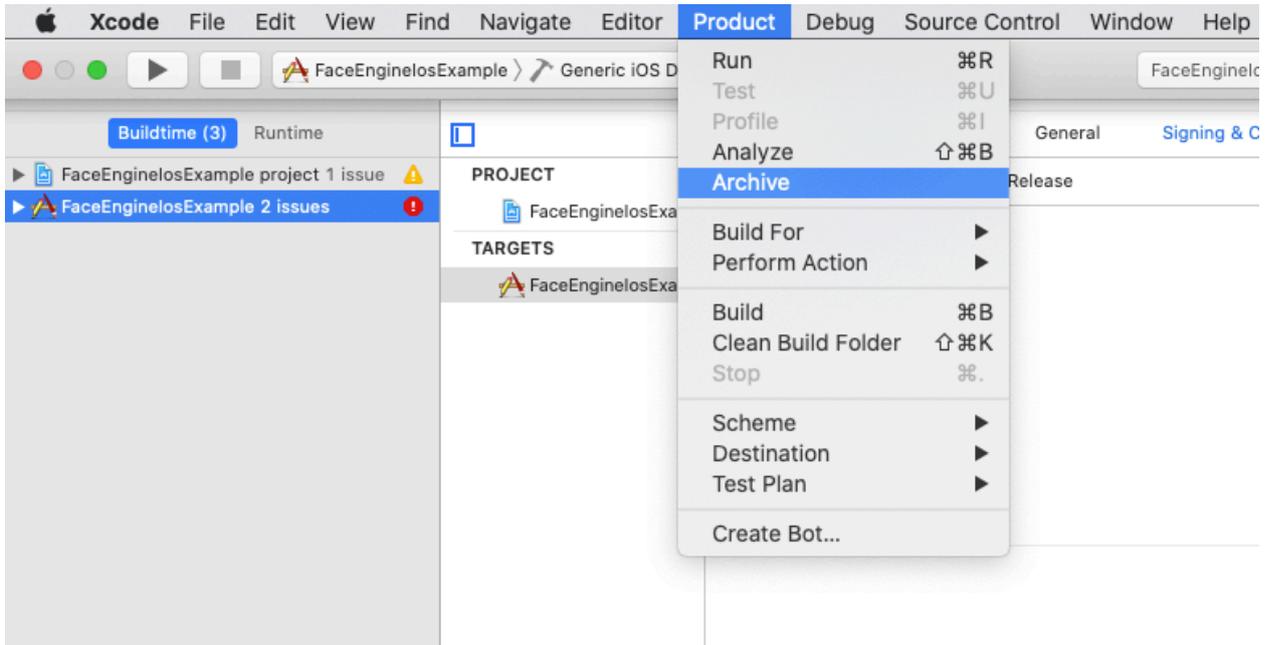
Figure 1: Used plans

### Application size

To find out the IOS application size follow these steps:

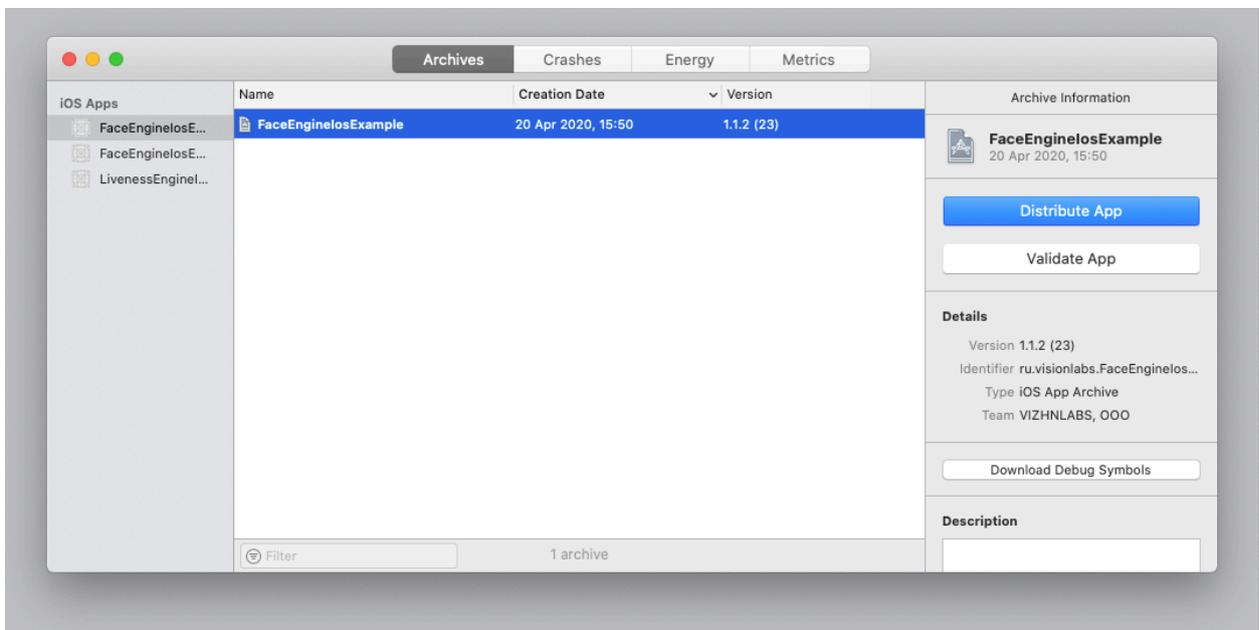
- Open your project with added frameworks in Xcode.

- Choose **Archive** from the **Product** tab.



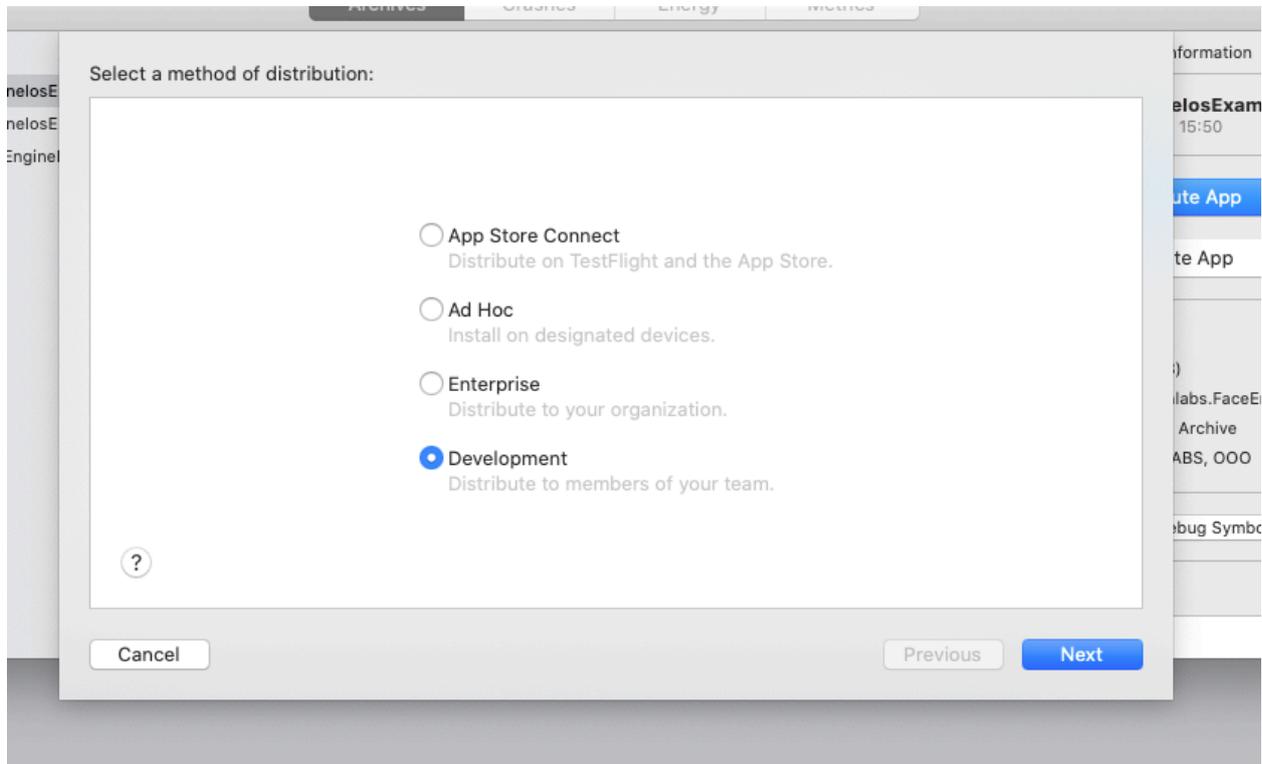
**Figure 2:** Archiving

- After archiving is finished, press the “Distribute App” button.



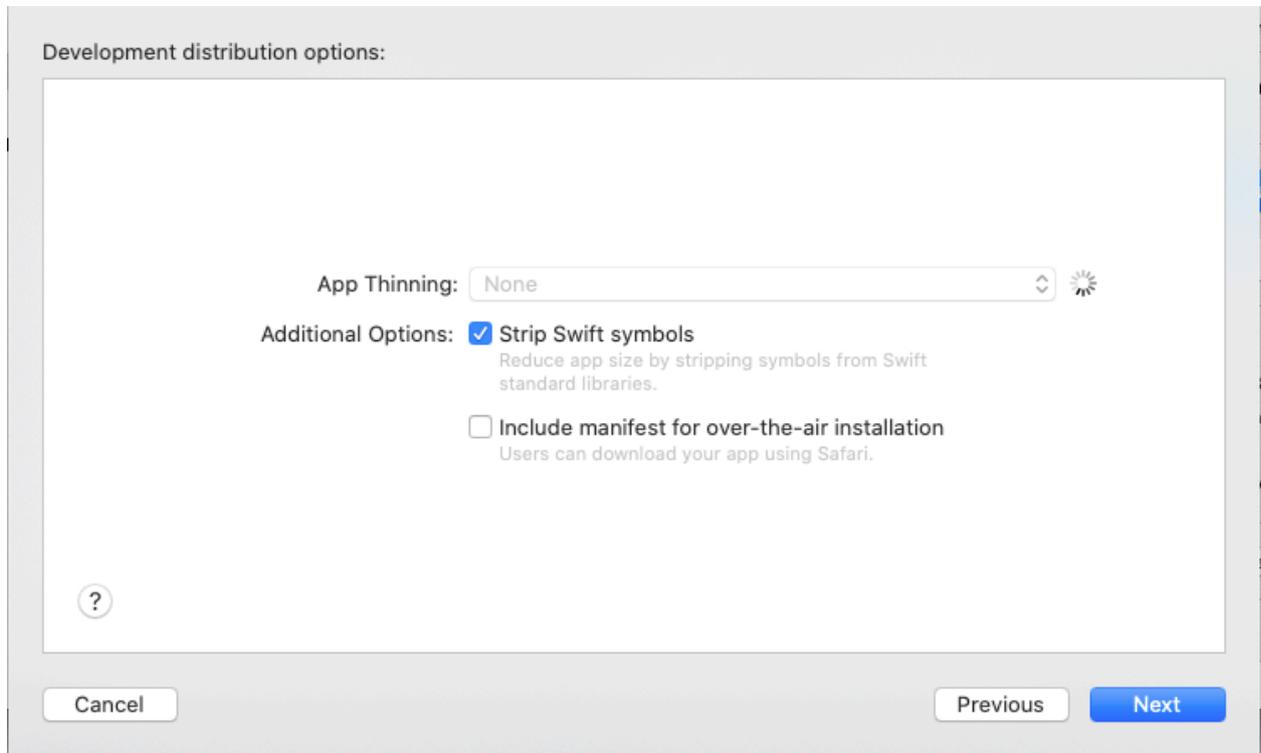
**Figure 3:** Distribute App

- Select the method of distribution. In our example it is development.



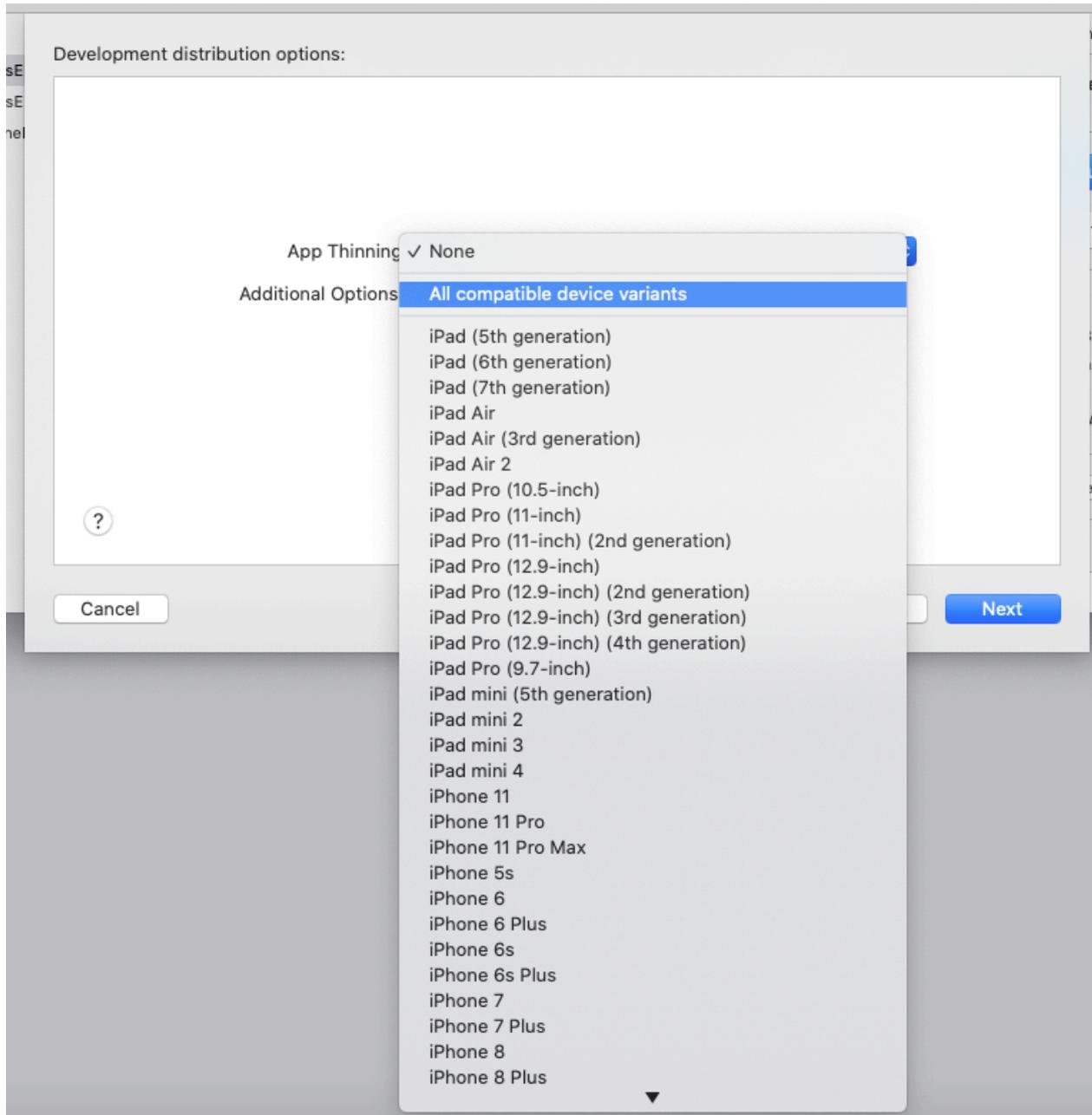
**Figure 4:** Method of distribution

- Select development distribution options according to the image below.



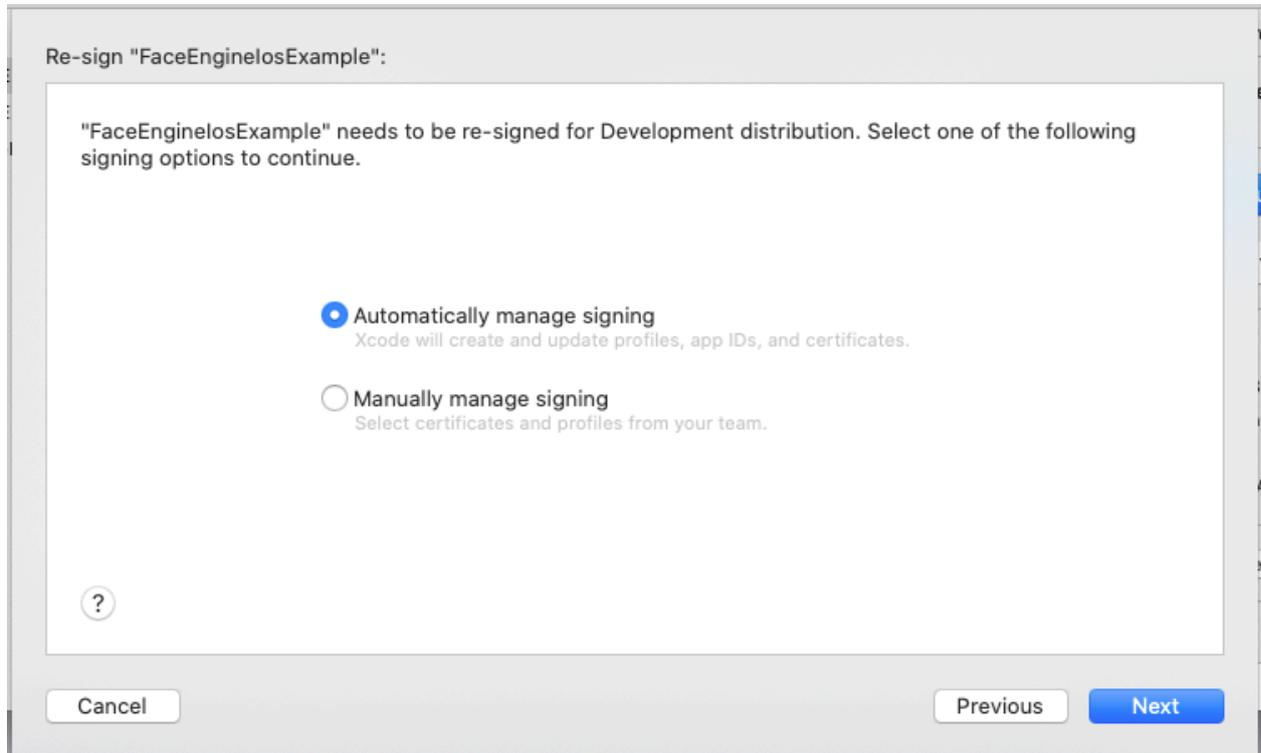
**Figure 5:** Development distribution options

- Select the device for distribution creation. In this example - “All compatible device variants”.



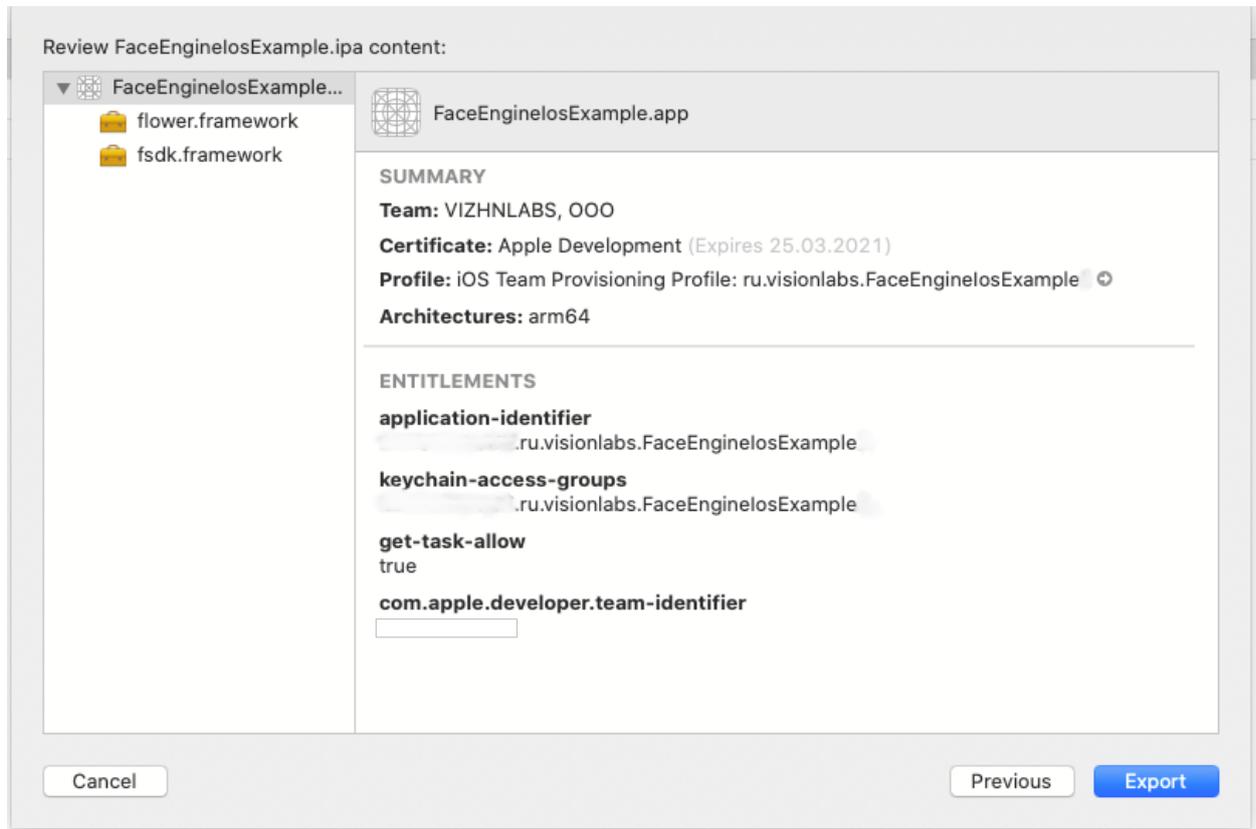
**Figure 6:** Development distribution options

- Re-sign your application, for example, by the developer signing.



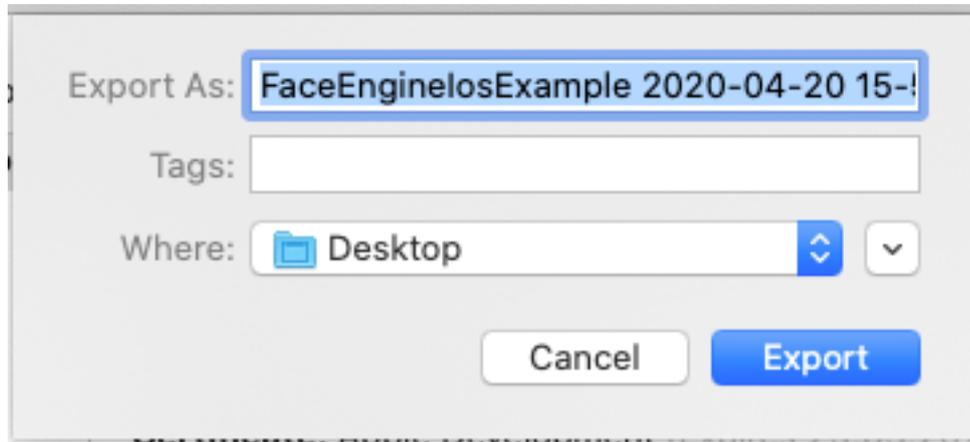
**Figure 7:** Re-signing

- After that, you can see the information about the archive.



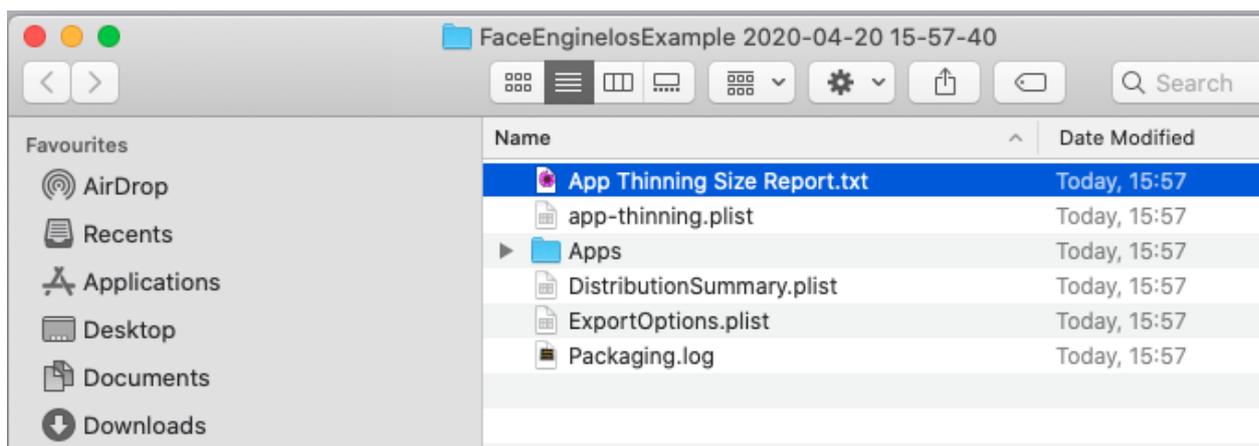
**Figure 8:** Frameworks inside your application

- Export your app.



**Figure 9:** Export

- Open “App Thinning Size Report.txt”.



**Figure 10:** Open “App Thinning Size report.txt”

- Find necessary information about the application size.

The size of the application without additional swift frameworks from this example is shown in the picture below.

```
App + On Demand Resources size: 19,6 MB compressed, 25,3 MB uncompressed
App size: 19,6 MB compressed, 25,3 MB uncompressed
On Demand Resources size: Zero KB compressed, Zero KB uncompressed
```

**Figure 11:** Application size

- After that, you can verify the size of the packed application.

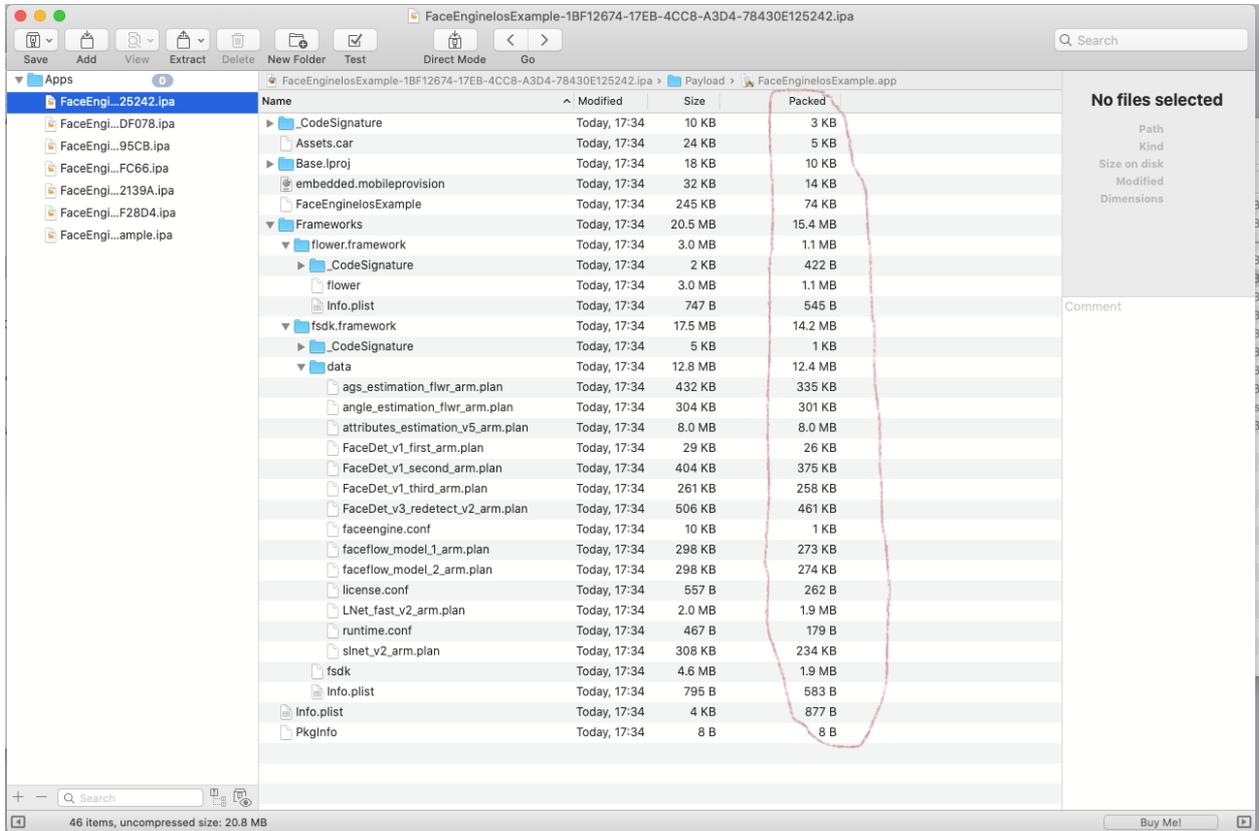


Figure 12: Size of compressed files