## **ToTokGameSDK Installation**

# (iOS)

Name	Date	version	remark
Yuanjun	2020.3.18	1.0.0	created

## 1. Register and create app

## 1.1 Register a new app in ToTokGame platform

Get application information such as appld, appsecret, gameid.

1.2 If you use Facebook related functions, you need to register with the Facebook development platform to create an application.

https://developers.facebook.com/apps/

## 2. Installation and Runtime Environment

• IDE : Xcode 10 or higher

• iOS: iOS 9.0 or higher

## 3. Install SDK

SDK Directory Structure:

- ToTokGameSDK
  - -Core/ToTokGameSDK.frame
  - -SocialLibraries/Facebook/

Information of third-party SDK:

```
Facebook: use cocoapods

'FBSDKCoreKit' '~> 5.13.1'

'FBSDKLoginKit' '~> 5.13.1'

'FBSDKShareKit' '~> 5.13.1'
```

## 3.1 Use Pod Install SDK (Recommend)

It is recommended to use the cocoapods install SDK. Cocoapods provides a simple dependency management system to avoid errors caused by manual import .

first you need to confirm that Cocoapods has been installed, if you have not installed Cocoapods, refer to the official website user guide:

https://cocoapods.org/.

1. In the root directory of the Xcode project, create a new Podfile.

#### \$ pod init

Add the following to this file:

```
source 'https://github.com/CocoaPods/Specs.git'
pod 'ToTokGameSDK'
```

Setup as shown below

```
# Uncomment the next line to define a global platform for your project
# platform :ios, '9.0'

source 'https://github.com/CocoaPods/Specs.git'

target 'ToTokGameApp' do
# Comment the next line if you don't want to use dynamic frameworks
use_frameworks!

pod 'ToTokGameSDK'

end

10 pod 'ToTokGameSDK'
```

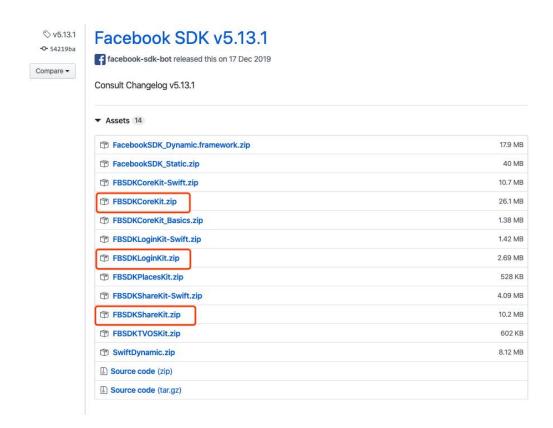
2. In the Podfile directory, execute the following instructions:

#### \$ pod install

- 3. After executing pod install, open the project directory and find the .xcworkspace file to run.
- 4. Future SDK upgrades can use the update command.
- \$ pod update

## 3.2 Install SDK Manually

- Download ToTokGameSDK related releases on github https://github.com/ToTokGames/ToTokGameSDK-iOS/releases
- Download related FacebookSDK version 5.3.1 on github https://github.com/facebook/facebook-ios-sdk/releases/tag/v5.13.1

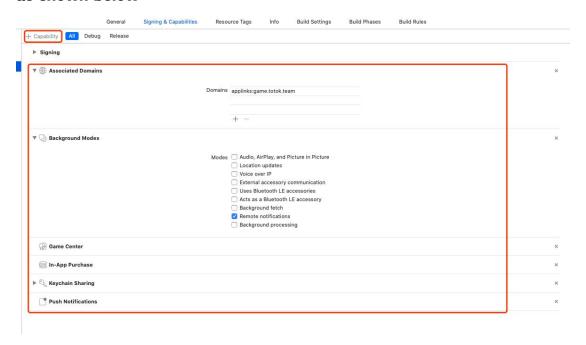


# 4. Project Configuration

## 4.1 Build Configuration

4.1.1 Apple service configuration, push, keychain, in-app purchase, and Universal Link are the services provided by Apple and need to be configured here.

#### as shown below



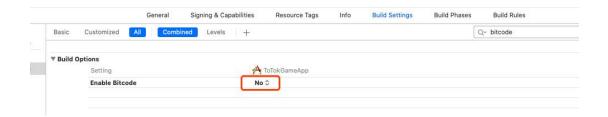
Domains(Test):

applinks:game.totok.team

Domains(Production):

applinks:game.totok.ai

**4.1.2** Set bitcode to NO (not supported by Facebook) as shown in the below



### 4.1.3 Set plist.info

Relevant function configuration: Facebook related (the information marked in red color needs to be obtained from the official Facebook application)

```
<key>NSPhotoLibraryUsageDescription</key>
<string>Photo albums are required to share pictures, please allow access</string>
<key>CFBundleURLTypes</key>
<array>
<dict>
<key>CFBundleTypeRole</key>
<string>Editor</string>
<key>CFBundleURLName</key>
<string>totok</string>
<key>CFBundleURLSchemes</key>
<array>
<string>appid</string>
</array>
</dict>
<dict>
<key>CFBundleURLSchemes</key>
<array>
<string>fbxxxxxxxxx</string>
</array>
</dict>
</array>
<key>FacebookAppID</key>
<string>xxxxxxxxx</string>
<key>FacebookDisplayName</key>
<string>AppName</string>
<key>LSApplicationQueriesSchemes</key>
```

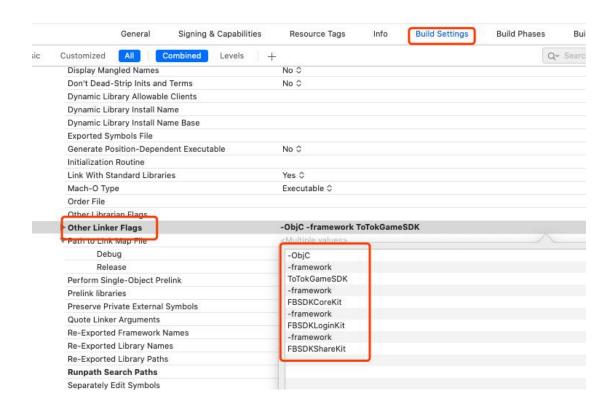
```
<array>
<string>whatsapp</string>
<string>totok</string>
<string>totoksdk</string>
<string>fbapi</string>
<string>fbapi20130214</string>
<string>fbapi20130410</string>
<string>fbapi20130702</string>
<string>fbapi20131010</string>
<string>fbapi20131219</string>
<string>fbapi20140410</string>
<string>fbapi20140116</string>
<string>fbapi20150313</string>
<string>fbapi20150629</string>
<string>fbapi20160328</string>
<string>fbauth</string>
<string>fbauth2</string>
<string>fbshareextension</string>
<string>fb-messenger-api20140430</string>
<string>fb-messenger-platform-20150128</string>
<string>fb-messenger-platform-20150218</string>
<string>fb-messenger-platform-20150305</string>
</array>
<key>NSAppTransportSecurity</key>
<dict>
<key>NSAllowsArbitraryLoads</key>
<true/>
<key>NSExceptionDomains</key>
<dict>
<key>akamaihd.net</key>
<dict>
<key>NSExceptionRequiresForwardSecrecy</key>
<false/>
<key>NSIncludesSubdomains</key>
<true/>
</dict>
```

```
<key>facebook.com</key>
<dict>
<key>NSExceptionRequiresForwardSecrecy</key>
<false/>
<key>NSIncludesSubdomains</key>
<true/>
</dict>
<key>fbcdn.net</key>
<dict>
<key>NSExceptionRequiresForwardSecrecy</key>
<false/>
<key>NSIncludesSubdomains</key>
<true/>
</dict>
</dict>
</dict>
```

If you choose pod installation, the above configuration is enough. Otherwise, please proceed to the following configuration steps.

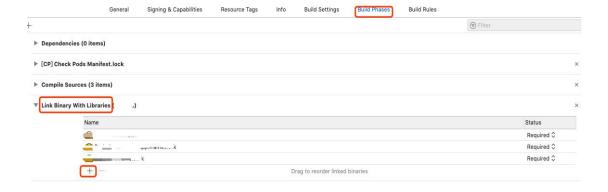
## **4.1.4 Build configuration**

Add Other Linker Flags (Pay attention to case)



# 4.1.5 The system libraries used by related SDKs need to be configured as follows.

'sqlite3', 'UlKit', 'StoreKit', 'GameKit', 'WebKit', 'UserNotifications', 'Photos', 'ImagelO', 'Foundation', 'CoreFoundation', 'QuartzCore', 'CoreGraphics', 'AVFoundation', 'CoreTelephony', 'Security', 'CoreMotion', 'ExternalAccessory', 'SystemConfiguration', 'Accounts', 'Social', 'AudioToolbox', 'Accelerate'



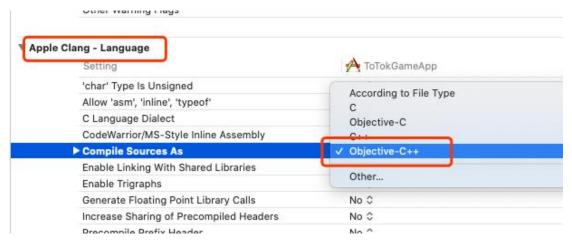
Add the system library required above here.

### 4.1.6 Compiling FBSDK requires setting compiling C++

Also set in build phases

Set Apple Clang - Language

#### as shown below

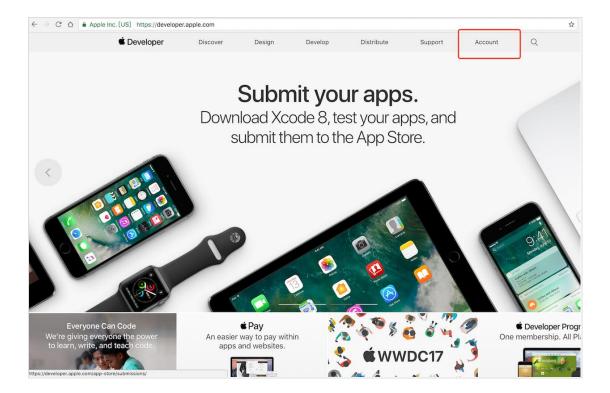


Compile configuration is over here.

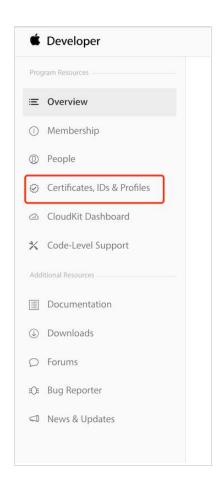
# 5. Push configuration

## 5.1 Certificate configuration

Log in to the Apple Developer Website and enter your developer account.



 Go to the "Certificates, IDs & Profiles" page from the left entry of the developer account page.



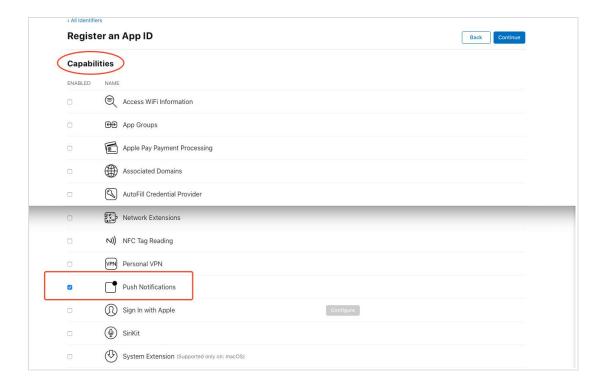
 Create an App ID, fill in the name of the App ID and the Bundle ID (skip this step if the ID already exists).



Note: You need to specify the specific bundle ID here. Do not use wildcard characters.



 Enable Push Notification for the app. If the App ID has already been created, you can also enable the Push Notification function through settings.



- After filling in the above attributes, click "Continue" to confirm the correctness of the Appld attribute, and click "Register" to register the Appld successfully.
- If you haven't created a Push certificate before or want to re-create a new one, please create a new one below the certificate list.

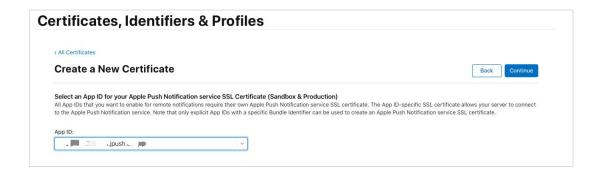


 When creating a new certificate, you need to choose the type of APNs certificate. As shown in the figure APNs certificate has two types of development (development) and production (production).

Note: The development certificate is used for development and debugging; the production certificate can be used for both development and debugging and product release. Here we choose the production certificate as an example.



Click "Continue", then select the certificate and the ApplD to be bound.

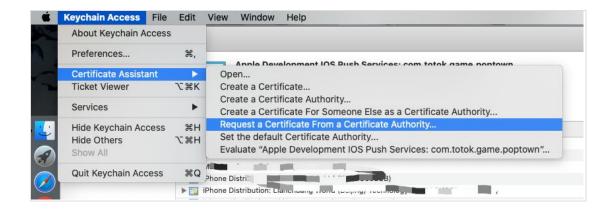


 Clicking "Continue" again will let you upload the CSR file. (CSR file will be created in the next step)



 Open KeychainAccess that comes with the mac system to create a Certificate Signing Request.

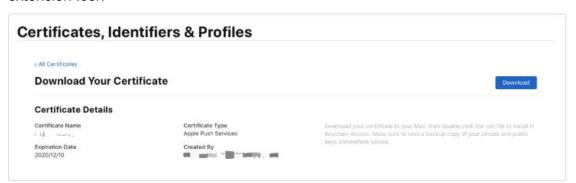
Operate as shown below:



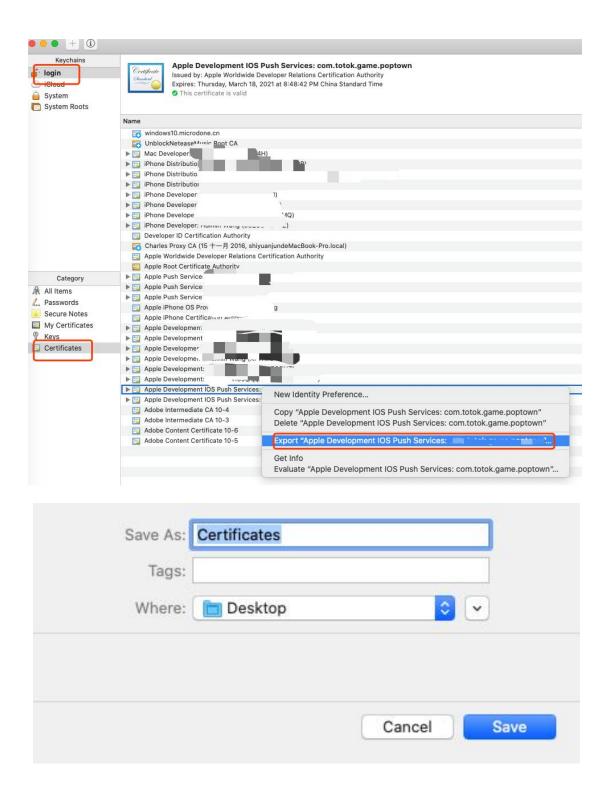
 Fill in "User Email" and "Common Name" and select "Save to Disk". The certificate file suffix is .certSigningRequest.



- Go back to the CSR upload page in your browser and upload the file with the suffix .certSigningRequest just generated.
- After the certificate is generated successfully, click the "Download" button to download the certificate. It is a file with the extension .cer.



• After double-clicking the certificate, it will open in "KeychainAccess", select "Login" in the "Keychain" list on the left, and "My certificate" in the "Type" list, find the certificate you just downloaded, and export it as a .p12 file. As shown below:



## Common Problem

## 1. pod related

If you have a pod installed, running pod install directly may cause the following problems

```
→ ToTokGameApp git:(master) x pod install
Analyzing dependencies
[!] Unable to find a specification for `ToTokGameSDK`

You have either:
  * out-of-date source repos which you can update with `pod repo update` or with `pod install --repo-update`.
  * mistyped the name or version.
  * not added the source repo that hosts the Podspec to your Podfile.
```

Need to update the pod repo

\$ pod install --repo-update

## 2. Project related

If you use xcode11 to create a new project, the iOS13 + real machine or simulator has a black screen

Reason: For the multi-window function of the iPad, the life cycle has changed. At present, the SDK does not support the multi-window function, so developer who use the SDK can change the project to the previous structure.

Specific steps are as follows:

### 1. First delete the Application Scene Manifest column from info.plist

Key	Туре	Value
▼ Information Property List	Dictionary	(15 items)
Localization native development re	String	\$(DEVELOPMENT_LANGUAGE)
Executable file	String	\$(EXECUTABLE_NAME)
Bundle identifier	String	\$(PRODUCT_BUNDLE_IDENTIFIER)
InfoDictionary version	String	6.0
Bundle name	String	\$(PRODUCT_NAME)
Bundle OS Type code	String	\$(PRODUCT_BUNDLE_PACKAGE_TYPE)
Bundle versions string, short	String	1.0
Bundle version	String	1
Application requires iPhone enviro	Boolean	YES
► Application Scene Manifest 🗘 🔾 🔾	Dictionary	(2 items)
Launch screen interface file base	ing	LaunchScreen
Main storyboard file base name		Main
▶ Required device capabilities	Array	(1 item)
▶ Supported interface orientations	Array	(3 items)
▶ Supported interface orientations (i ♦	Array	(4 items)

# 2. In the project directory, delete the Scenedelegate.h and Scenedelegate.m files

# 3. Then enter AppDelegate.m to comment or delete the content shown below

```
#pragma mark - UISceneSession lifecycle
- (UISceneConfiguration *)application:(UIApplication *)application
    configurationForConnectingSceneSession:(UISceneSession
    *)connectingSceneSession options:(UISceneConnectionOptions
    *)options {
    // Called when a new scene session is being created.
    // Use this method to select a configuration to create the new
        scene with.
    return [[UISceneConfiguration alloc] initWithName:@"Default
        Configuration" sessionRole:connectingSceneSession.role];
}
- (void)application: (UIApplication *)application
    didDiscardSceneSessions:(NSSet<UISceneSession *> *)sceneSessions {
    // Called when the user discards a scene session.
    // If any sessions were discarded while the application was not
        running, this will be called shortly after
        application:didFinishLaunchingWithOptions.
    // Use this method to release any resources that were specific to
        the discarded scenes, as they will not return.
}
```

## 4. The last step is to add the window property in AppDelegate.h

@property (strong, nonatomic) UIWindow \* window;