



AdFalcon iOS SDK 2.2.0 Developer's Guide

AdFalcon Mobile Ad Network

Product of

Noqoush Mobile Media Group



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1 Introduction

AdFalcon iOS SDK Integration guide contains all the information needed by iOS developers to integrate with AdFalcon Network. The guide will also show examples and code snippets on how to perform the integration.

OS version support

iOS SDK supports iPhone and iPad platforms utilizing **iOS version 4.0** to the latest iOS version.

In the zip file

You will find the following files within the iOS SDK folder:

- ADFAdView.h
- ADFAdViewDelegate.h
- ADFUserInfo.h
- ADFTargetingParams.h
- ADFInterstitialAd.h
- ADFInterstitialAdDelegate.h
- libAdFalconSDK2.2.0.a



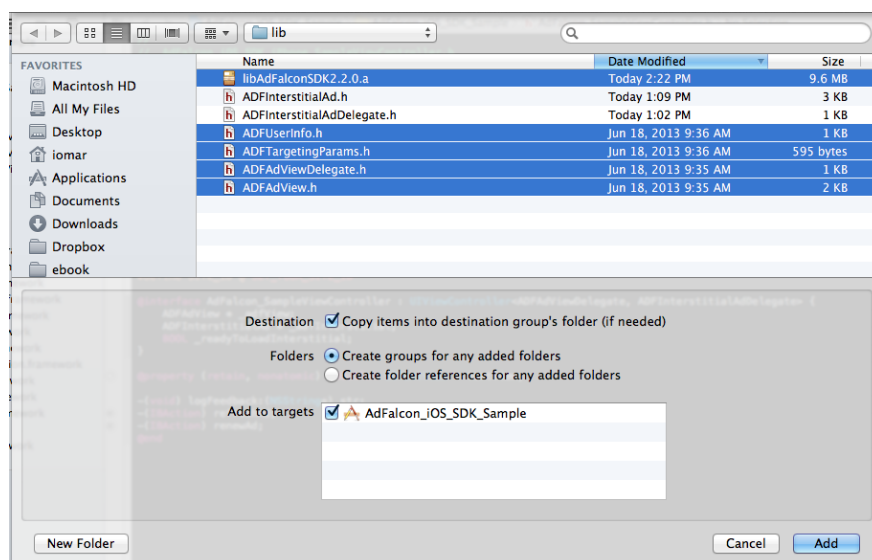
2 Banner Ad Integration Steps

This section describes how to integrate with the AdFalcon's iOS SDK in order to consume the services available by the network.

In order to integrates with the SDK, please perform the following steps:

Step 1: Add headers and library

1. Create a folder for AdFalconSDK in your project
2. Right click at the folder and select from submenu Add Files to "Project name" ...
3. Navigate to AdFalcon iOS SDK Bundle folder (where the SDK files are stored)
4. Select from the file pane the following headers and library:
 - **ADFAView.h**
 - **ADFAViewDelegate.h**
 - **ADFUserInfo.h**
 - **ADFTargetingParams.h**
 - **libAdFalconSDK2.2.0.a**
5. Mark "Copy items into destination group's folder of needed" as checked then click Add



Step 2: Add frameworks

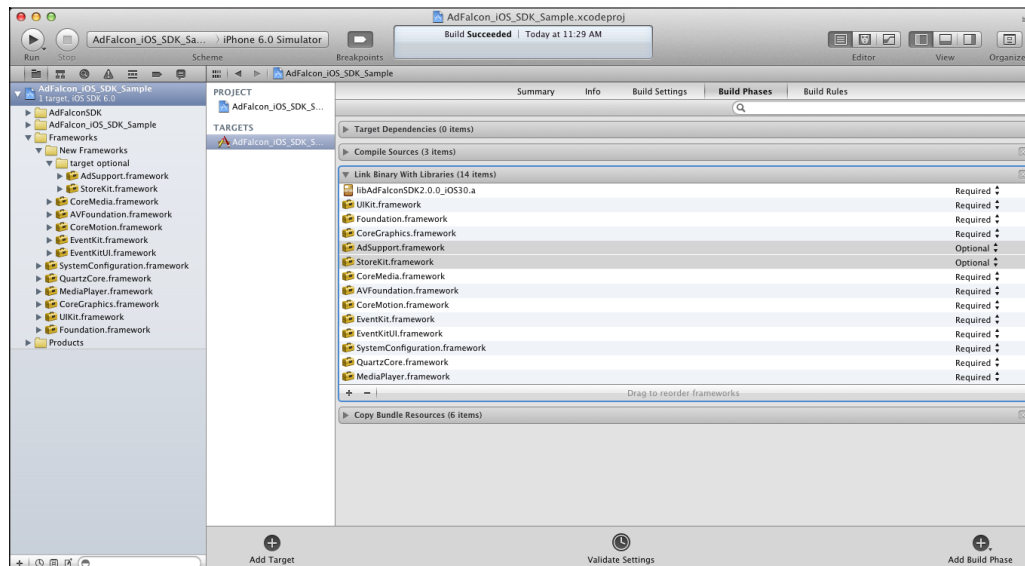
You have to add the below frameworks to your project's target libraries

- QuartzCore.framework
- MediaPlayer.framework
- CoreGraphics.framework
- SystemConfiguration.framework
- CoreMedia.framework
- AVFoundation.framework
- CoreMotion.framework
- EventKit.framework
- EventKitUI.framework



- AdSupport.framework (Optional)
- StoreKit.framework (Optional)

Note: You have to mark (AdSupport and StoreKit) as 'optional' because they are just compatible with the iOS6 and above versions. In case you do not mark them as optional, your app will not run successfully in the older iOS versions (iOS4.x, iOS5.x).



Step 3: Adding Banner Ads

1. Add **ADFAdView** to the view controller header file
 1. Import **ADFAdView.h** in your .h file .
 2. declare **ADFAdView** instance.

Below is an example of how the header should look like:

```
#import "ADFAdView.h"

@interface AdFalcon_iOS_SDK_iPhone_SampleViewController: UIViewController{
    ADFAdView * adView;
}
```

2. Add the following code snippet to viewDidLoad method

```
//initialize AdFalcon view and set size of the view base on ad unit size
adView = [[ADFAdView alloc] initWithFrame:CGRectMake(0, 0, 320, 50)];

//Enable or disable testing mode
adView.testing = YES;

//initialize AdFalcon view and loading ads
[adView

initializeWithAdUnit:kADFAdViewAdUnitSizeAutoBanner //set the ad unit size

siteId:@"Your Site ID"]
```



```

params:nil //Optional set user information

rootViewController:self //rootViewController

enableAutorefresh:YES //Enable or disable auto refresh

delegate:nil //Optional

];

//Add AdFalcon view
[self.view addSubview:adView];

```

Note: In case you are overriding the [UIViewController loadView] to programmatically draw your view, ensure that AdFalcon view is initialized after completing loading the UIViewController's view.

Note: Ensure Test Mode Parameter is set to false before uploading your application to Apple store.

Note: to know more about ad unit size go to [ADFAdViewAdUnitSize](#)

3. Add the following code in `dealloc` method

It is important to call the [ADFView dispose] method so that Ad view will perform the needed cleanup, otherwise unpredictable behavior might happen.

```

adView.delegate = nil;
[adView dispose];
[adView release];

```

Advance Banner Ads Options

Tracking Ad Lifecycle Events – ADFADViewDelegate

AdFalcon iOS SDK provides ability to track Ad lifecycle events, follow the procedure below to listen to the Ad lifecycle events

- Import the ADFADViewDelegate.h protocol to your header as the below:

```

#import "ADFAdViewDelegate.h"

@interface XViewController: UIViewController<ADFAdViewDelegate> {
}

```

- Add the below ADFADViewDelegate's methods to your source file as the below

```

-(void)adViewWillLoadAd:(ADFAdView*) adView
{
}
-(void)adViewDidLoadAd: (ADFAdView*) adView
{
}
-(void)adView: (ADFAdView*) adView didFailWithCode:(int) code message:(NSString*) message
{
    switch (code) {
        case kADFAdViewErrorNoAdAvailabe:
            // No Ad Availabe
            break;
    }
}

```



```

        case kADFAdViewErrorInvalidParam:
            // Invalid Param send to server
            break;
        case kADFAdViewErrorMissingParam:
            // Missing Param send to server
            break;
        case kADFAdViewErrorCommunication:
            //Communication with server failed or no internet
            break;
        default:
            break;
    }
}
-(void)adViewWillPresentScreen: (ADFAdView*) adView
{
}
-(void)adViewDidPresentScreen: (ADFAdView*) adView
{
}
-(void)adViewWillDismissScreen: (ADFAdView*) adView
{
}
-(void)adViewDidDismissScreen: (ADFAdView*) adView
{
}
-(void)applicationWillTerminate:(UIApplication *)application
{
}
-(void)applicationDidEnterBackground:(UIApplication *)application
{
}
}

```

- Assign your delegate object to ADFAdView object as the below:

```

[adView
    initWithAdUnit:kADFAdViewAdUnitSizeAutoBanner //set the ad unit size

    siteld:@"Your Site ID"

    params:nil //Optional set user information

    rootViewController:self //rootViewController

    enableAutorefresh:YES //Enable or disable auto refresh

    delegate:self //Optional

];

```

OR

```
adView.delegate = self;
```

Select Ad Unit Size

Use the below enum table to select the needed ad unit size

Enum	Description	Size	Devices
kADFAdViewAdUnitSizeAutoBanner	The server will return the best banner ad based on the screen size and device type		All
kADFAdViewAdUnitSize320x50	Standard	320 x 50	All



kADFAViewAdUnitSize300x250	Medium Rectangle	300 x 250	All
kADFAViewAdUnitSize468x60	Full Banner	468 x 60	Tablet
kADFAViewAdUnitSize728x90	Leaderboard	728 x 90	Tablet
kADFAViewAdUnitSize120x600	Skyscraper	120 x 600	Tablet

Refresh Ad

Use the below methods to enable, pause, resume or force refresh Ad.

Method	Description
<pre> -(void) initializeWith AdUnit:(ADFAViewAdUnitSize) adUnit siteld: (NSString*) siteld userInfo: (ADFUserInfo*) userInfo rootViewController: (UIViewController*) rootViewController enableAutorefresh: (BOOL) enableAutorefresh delegate: (NSObject<ADFAViewDelegate> *) delegate; </pre>	Enable or disable auto refresh ad
<pre> -(void) pauseAutoRefresh; </pre>	Will pause auto refresh timer which is responsible for getting new ad the ad after a certain period has elapsed.
<pre> -(void) resumeAutoRefresh; </pre>	Will resume the auto refresh timer which responsible for getting new ad after a certain period has elapsed.
<pre> -(void) refreshAd; </pre>	Will get a new ad from AdFalcon.



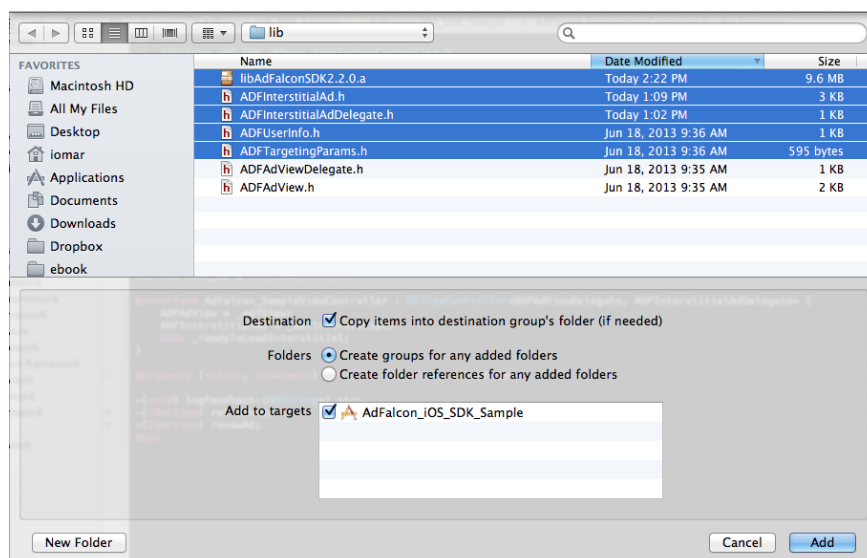
3 Interstitial Ad Integration Steps

This section describes how to integrate with the AdFalcon's iOS SDK in order to consume the services available by the network.

in order to integrates with the SDK, please perform the following steps:

Step 1: Add headers and library

1. Create a folder for AdFalconSDK in your project
2. Right click at the folder and select from submenu Add Files to "Project name" ...
3. Navigate to AdFalcon iOS SDK Bundle folder (where the SDK files are stored)
4. Select from the file pane the following headers and library:
 - a) **ADFUserInfo.h**
 - b) **ADFTargetingParams.h**
 - c) **ADFIInterstitialAd.h**
 - d) **ADFIInterstitialAdDelegate.h**
 - e) **libAdFalconSDK2.2.0.a**
5. Mark "Copy items into destination group's folder of needed" as checked then click Add



Step 2: Add frameworks

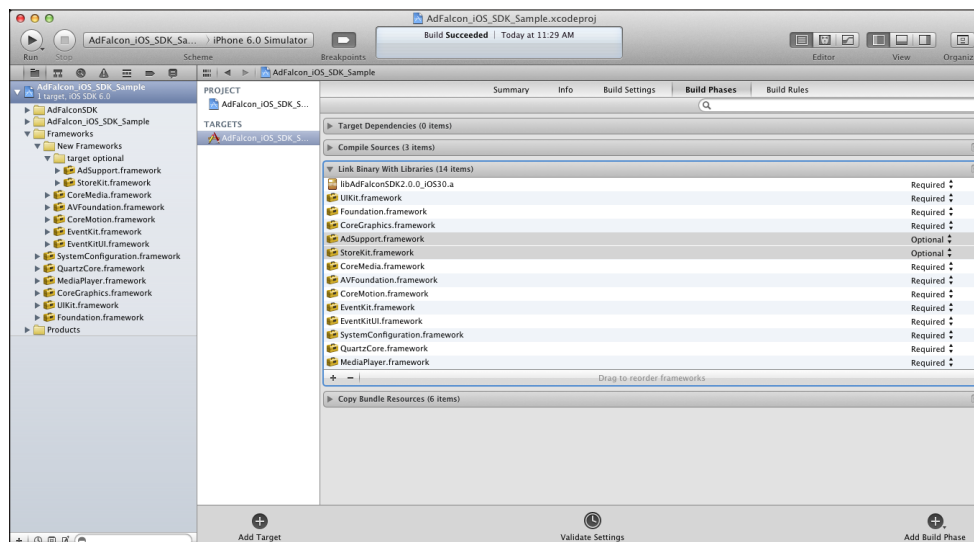
You have to add the below frameworks to your project's target libraries

- QuartzCore.framework
- MediaPlayer.framework
- CoreGraphics.framework
- SystemConfiguration.framework
- CoreMedia.framework
- AVFoundation.framework
- CoreMotion.framework
- EventKit.framework
- EventKitUI.framework



- AdSupport.framework (Optional)
- StoreKit.framework (Optional)

Note: You have to mark (AdSupport and StoreKit) as 'optional' because they are just compatible with the iOS6 and above versions. In case you do not mark them as optional, your app will not run successfully in the older iOS (iOS4.x, iOS5.x).



Step 3: Add ADFAdView to the view controller header file

1. Import **ADInterstitialAd.h** and **ADInterstitialAdDelegate.h** in your .h file .
2. implement **ADInterstitialAdDelegate** protocol and declare **ADInterstitialAd** instance.

Below is an example of how the header should look like:

```
#import "ADInterstitialAdDelegate.h"
#import "ADInterstitialView.h"

@interface AdFalcon_iOS_SDK_iPhone_SampleViewController: UIViewController<ADInterstitialAdDelegate> {
    ADInterstitialAd * adfInterstitial;
}
```

Step 4: Add ADFAdView to the view controller implementation

1. Add the following code in viewDidLoad method

```
//initialize ADInterstitialAd
adfInterstitial = [[ADInterstitialAd alloc] init];

//If you want to use test mode
adfInterstitial.testing = YES;

//load new interstitial
[adfInterstitial loadInterstitialWithSiteID: @"Your site ID" delegate:self];
```



Note: If more information are available about the user, then it is recommended that you call the method below instead and pass the user information in [ADFTargetingParams](#) parameter in the same way this is handled in the Standard Banner Ad.

```
-(void) loadInterstitialWithSiteID:(NSString*) siteID testing:(BOOL) testing
delegate:(NSObject<ADFIInterstitialAdDelegate> *) delegate
params:(ADFTargetingParams*) params;
```

2. Add the following code in dealloc method

```
adfInterstitial.delegate = nil;
[adfInterstitial release];
```

3. Add the following required delegate methods for the [ADFIInterstitialAdDelegate](#) protocol.

```
-(void)adfInterstitialDidLoadAd: (ADFIInterstitialAd*) adfInterstitial{
    [adfInterstitial presentFromRootViewController:self]
}

-(void)adfInterstitialDidDismissScreen: (ADFIInterstitialAd*) adfInterstitial{
}

-(void)adfInterstitial: (ADFIInterstitialAd*) adfInterstitial didFailWithErrorCode:(int) code
message:(NSString*)message{
    switch (code) {
        case kADFAViewErrorNoAdAvailabe:
            // No Ad Availabe
            break;
        case kADFAViewErrorInvalidParam:
            // Invalid Param send to server
            break;
        case kADFAViewErrorMissingParam:
            // Missing Param send to server
            break;
        case kADFAViewErrorCommunication:
            //Communication with server failed or no internet
            break;
        default:
            break;
    }
}
```



4 Appendix

ADFADView Class

This is the main class and it extends UIView. This Class is responsible for gathering all the needed information to get an ad from AdFalcon network and rendering it on the device.

The properties of the ADFADView Class are:

Property	Description
<code>int</code> refreshDuration	Refresh duration in seconds
<code>NSObject<ADFADViewDelegate> *</code> delegate	Delegate of AdFalcon view
<code>BOOL</code> testing	The property is used to inform AdFalcon network that the application is under the testing mode rather than production mode.
<code>BOOL</code> logging	Enable logging

The methods of the ADFADView Class are:

Method	Description
<code>-(void) initializeWith</code> <code>AdUnit:(ADFADViewAdUnitSize) adUnit</code> <code>siteId:</code> <code>(NSString*) siteId</code> <code>userInfo:</code> <code>(ADFUserInfo*) userInfo</code> <code>rootViewController:</code> <code>(UIViewController*) rootViewController</code> <code>enableAutorefresh:</code> <code>(BOOL) enableAutorefresh</code> <code>delegate:</code> <code>(NSObject<ADFADViewDelegate> *) delegate;</code>	<p>Will initialize the AdFalcon view and load the ad.</p> <p>All the parameters are required except “delegate” which can be null.</p>
<code>-(void) pauseAutoRefresh;</code>	Will pause auto refresh timer which is responsible for getting new ad the ad after a certain period has elapsed.
<code>-(void) resumeAutoRefresh;</code>	Will resume the auto refresh timer which responsible for getting new ad after a certain period has elapsed.
<code>-(void) refreshAd;</code>	Will get a new ad from AdFalcon.
<code>-(void) dispose;</code>	Will cleanup the AdFalcon view to release it



ADFAdViewDelegate Protocol

AdFalcon SDK provides a protocol called ADFAdViewDelegate that is responsible for providing feedback from AdFalcon SDK. This protocol contains nine optional delegate methods which are called upon the following events:

- When an error occurs
- Before and After an ad is loaded
- Before and After ad click action screen is displayed
- Before and After ad click action screen is closed
- Application will go to background mode and
- Application will terminate.

The methods of the ADFAdViewDelegate Class are:

Method	Description
<code>-(void)adViewWillLoadAd:(ADFAdView*) adView;</code>	Will be called before the ad is being loaded.
<code>-(void)adViewDidLoadAd: (ADFAdView*) adView;</code>	Will be called after the ad has been loaded
<code>-(void)adView: (ADFAdView*) adView didFailWithCode:(int) code message:(NSString*) message;</code>	Will be called when an error has occurred during loading an ad.
<code>-(void)adViewWillPresentScreen: (ADFAdView*) adView;</code>	Will be called before the ad click screen is displayed.
<code>-(void)adViewDidPresentScreen: (ADFAdView*) adView;</code>	Will be called after the ad click screen is displayed.
<code>-(void)adViewWillDismissScreen: (ADFAdView*) adView;</code>	Will be called before the ad click screen is dismissed.
<code>-(void)adViewDidDismissScreen: (ADFAdView*) adView;</code>	Will be called after the ad click screen is dismissed.
<code>-(void)applicationWillTerminate:(UIApplication*)application;</code>	Will be called before the Application is terminated.
<code>-(void)applicationDidEnterBackground:(UIApplication*)application;</code>	Will be called before the Application enters into background mode.

ADFIInterstitialAd Class

This Class is responsible for gathering all the needed information to get an interstitial ad from AdFalcon network and presenting it on the device.

The properties of the ADFInterstitial Class are:

Property	Description
<code>NSObject<ADFIInterstitialAdDelegate> * delegate</code>	This property is <u>required</u> . It is used to pass a reference to the class implementing AdFalcon



	interstitial delegate.
<code>NSString * siteld</code>	This property is <u>required</u> . Represents the Id of App.
<code>BOOL testing</code>	The property is used to inform AdFalcon network that the application is under the testing mode rather than production mode. Before releasing your application ensure this is set to false.
<code>BOOL isReadyToPresent</code>	The value is true when the ad is loaded successfully and ready to be presented otherwise will be false.
<code>ADFTargetingParams * targetingParams</code>	This property is used to hold the extra information about the current user of App.
<code>BOOL logging</code>	Enable logging

The methods of the ADFADView Class are:

Method	Description
<code>-(void) loadInterstitial;</code>	Used to load new interstitial Ad but before using this method you must fill the required properties.
<code>-(void) loadInterstitialWithSiteID:(NSString*) siteID delegate:(NSObject<ADFIInterstitialAdDelegate> *) delegate;</code>	Used to load new interstitial Ad with required parameters.
<code>-(void) loadInterstitialWithSiteID:(NSString*) siteID testing:(BOOL) testing delegate:(NSObject<ADFIInterstitialAdDelegate> *) delegate params:(ADFTargetingParams*) params;</code>	Used to load new interstitial Ad with all possible parameters including additional user information.
<code>-(void) presentFromRootViewController:(UIViewController*) rootViewController;</code>	Used to present the loaded interstitial from specified root view controller. You should not call this method before the interstitial is loaded successfully. So we recommended to call this method when The Interstitial fires <i>adfInterstitialDidLoadAd</i> delegate's method.

ADFIInterstitialAdDelegate Protocol

AdFalcon SDK provides a protocol called ADFIInterstitialAdDelegate that is responsible for providing feedback from interstitial view. This protocol contains delegate methods which are called upon the following events:

- When an error occurs
- Before and After an ad is loaded
- Before and After interstitial is displayed
- Application will go to background mode and will be terminated.



The methods of the ADFADViewDelegate Class are:

Method	Description
<code>-(void)adfInterstitialDidLoadAd: (ADFInterstitialAd*) adfInterstitial;</code>	<u>Required</u> delegate method and will be called after the ad has been loaded.
<code>-(void)adfInterstitialDidDismissScreen: (ADFInterstitialAd*) adfInterstitial;</code>	<u>Required</u> delegate method and will be called after the interstitial screen has been dismissed.
<code>-(void)adfInterstitial: (ADFInterstitialAd*) adfInterstitial didFailWithErrorCode:(int) code message:(NSString*)message;</code>	<u>Required</u> delegate method and will be called when an error has occurred during loading an ad.
<code>-(void)adfInterstitialWillPresentScreen: (ADFInterstitialAd*) adfInterstitial;</code>	<u>Optional</u> . Will be called before the interstitial screen is presented.
<code>-(void)adfInterstitialWillDismissScreen: (ADFInterstitialAd*) adfInterstitial;</code>	<u>Optional</u> . Will be called before the interstitial screen is dismissed.
<code>-(void)adfInterstitialAppWillTerminate:(ADFInterstitialAd*) adfInterstitial;</code>	<u>Optional</u> . Will be called before the Application is terminated.
<code>-(void)adfInterstitialAppWillEnterBackground:(ADFInterstitialAd*) adfInterstitial;</code>	<u>Optional</u> . Will be called before the Application enters into background mode.

ADUserInfo Class

The ADUserInfo Class contains all the needed parameters about the user of application.

The parameters of the ADUserInfo Class are:

Parameter	Required	Description	Values
Language	No	The language of the requested ad in ISO 639-1 language codes format (Two Letters code);	ar, en
Postal code	No	A parameter containing the user's postal/ZIP code	11121
Area code	No	A parameter containing the user's area code	06
Age	No	A parameter containing the user's age	27
Gender	No	A parameter containing the user's	kADUserInfoGenderNone kADUserInfoGenderMale kADUserInfoGenderFemale



gender			
Country code	No	County code of the end user in ISO 3166-1 alpha-2 format code (two-letter code)	JO, SA ...etc.
Birthdate	No	Birthdate of application user in format dd.MM.yyyy	21.11.1984
Location: Latitude, Longitude	No	The geolocation information of the device. The location information is divided into two double values; latitude and longitude.	35.658, 34.641

ADFTargetingParams Class

The ADFTargetingParams Class contains all the needed parameters about any given user and application in order to help adFalcon network to send most related and targeted ads to the user and application. All parameters are optional.

The parameters of the ADFTargetingParams Class are:

Parameter	Required	Description	Values
userInfo	No	A class containing information about the user of application	ADFUserInfo
Keywords	No	A list containing keywords in comma separated format. AdFalcon's ads selector engine will search for ads containing these keywords.	ex. sport, news, lifestyle, ...etc.
Additional Info	No	A map of keys and values to add	



additional
parameters.

ADFAViewAdUnitSize Enum

ADFAViewAdUnitSize Enum defines the ad units supported by the AdFalcon iOS SDK

Enum	Description	Size	Devices
kADFAViewAdUnitSizeAutoBanner	The server will return the best banner ad based on the screen size and device type		All
kADFAViewAdUnitSize320x50	Standard	320 x 50	All
kADFAViewAdUnitSize300x250	Medium Rectangle	300 x 250	All
kADFAViewAdUnitSize468x60	Full Banner	468 x 60	Tablet
kADFAViewAdUnitSize728x90	Leaderboard	728 x 90	Tablet
kADFAViewAdUnitSize120x600	Skyscraper	120 x 600	Tablet

ADFAViewError Enum

Enum	Description
kADFAViewErrorInternalServer	is an error that's happened within the web server attempting to get you an ad. It's typically a server-side problem out of your control
kADFAViewErrorNoAdAvailabe	no ad available in AdFalcon stores
kADFAViewErrorInvalidParam	There is a parameter has invalid value
kADFAViewErrorMissingParam	You have missed to fill required parameter
kADFAViewErrorGenericSDK	An error happened within the SDK during attempting to load or render an ad.
kADFAViewErrorCommunication	No connection available to the internet.
kADFAViewErrorInterstitialAlreadyUsed	An error happened when application try to reuse Interstitial



5 More Information:

You can find more information in the sample project within the downloaded zip file.

For any SDK integration queries, please send us an email to support@adfalcon.com along with your login id.