



Mobile Application Analytics iOS SDK Instructions

SDK version 4.0.6
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Welcome to Flurry Analytics!

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1. Introduction

The Flurry iOS Analytics Agent allows you to track the usage and behavior of your iOS application on users' phones for viewing in the Flurry Analytics system. It is designed to be as easy as possible with a basic setup complete in under 5 minutes.

Please note that this SDK will only work with Xcode 4.5 or above. If you need an SDK for an older Xcode version please email support.

This archive should contain these files:

- **Analytics-README.pdf** : This file containing instructions on how to use Flurry Analytics.
- **Flurry/Flurry.h** : The required header file header file containing methods for Flurry Analytics.
- **Flurry/libFlurry.a** : The required library containing Flurry's collection and reporting code.

There are additional folders for use with Flurry Ads. These optional libraries provide alternate streams of revenue for your apps. If you would like to use Flurry Ads please refer to FlurryAds-iOS-README.pdf.

Flurry Agent does not require CoreLocation framework and will not collect GPS location by default. Developers who use their own CLLocationManager can set GPS location information in the Flurry Agent (see Optional Features for more information).

We also recommend calling Flurry Analytics from the main thread. Flurry Analytics is not supported when called from other threads.

2. Integration

1. In the finder, drag Flurry/ into project's file folder. (NOTE: If you are upgrading the Flurry iOS SDK, be sure to remove any existing Flurry library folders from your project's file folder before proceeding.)

2. Now add it to your project:

File > Add Files to "Your Project" ... > Flurry

- Destination: select Copy items into destination group's folder (if needed)
- Folders: Choose 'Create groups for any added folders'
- Add to targets: select all targets that the lib will be used for

3. Add `SystemConfiguration.framework` to your app. This is required for Reachability to manage network operations efficiently.

4. In your Application Delegate:

- Import Flurry and inside "applicationDidFinishLaunching:" add: [Flurry
startSession:@"YOUR_API_KEY"];

```
#import "Flurry.h"
- (void)applicationDidFinishLaunching:(UIApplication *)application {
    [Flurry startSession:@"YOUR_API_KEY"];
    //your code
}
```

You're done! That's all you need to do to begin receiving basic metric data.

3. Optional / Advanced Features

You can use the following methods to report additional data.

Tracking User Behavior

```
[Flurry logEvent:@"EVENT_NAME"];
```

Use `logEvent` to count the number of times certain events happen during a session of your application. This can be useful for measuring how often users perform various actions, for example. Your application is currently limited to counting occurrences for 300 different event ids (maximum length 255 characters).

```
[Flurry logEvent:@"EVENT_NAME" withParameters:YOUR_NSDictionary];
```

Use this version of `logEvent` to count the number of times certain events happen during a session of your application and to pass dynamic parameters to be recorded with that event. Event parameters can be passed in as a `NSDictionary` object where the key and value objects must be `NSString` objects. For example, you could record that a user used your search box tool and also dynamically record which search terms the user entered. Your application is currently limited to counting occurrences for 100 different event ids (maximum length 255 characters). Maximum of 10 event parameters per event is supported.

An example `NSDictionary` to use with this method could be:

```
NSDictionary *dictionary =
[NSDictionary dictionaryWithObjectsAndKeys:@"your dynamic parameter value",
                                           @"your dynamic parameter name",
                                           nil];
```

```
[Flurry logEvent:@"EVENT_NAME" timed:YES];
```

Use this version of `logEvent` to start timed event.

```
[Flurry logEvent:@"EVENT_NAME" withParameters:YOUR_NSDictionary timed:YES];
```

Use this version of `logEvent` to start timed event with event parameters.

```
[Flurry endTimedEvent:@"EVENT_NAME" withParameters:YOUR_NSDictionary];
```

Use `endTimedEvent` to end timed event before app exits, otherwise timed events automatically end when app exits. When ending the timed event, a new event parameters `NSDictionary` object can be used to update event parameters. To keep event parameters the same, pass in `nil` for the event parameters `NSDictionary` object.

```
[Flurry logAllPageViews:navigationController];
```

To enable Flurry agent to automatically detect and log page view, pass in an instance of `UINavigationController` or `UITabBarController` to `countPageViews`. Flurry agent will create a delegate on your object to detect user interactions. Each detected user interaction will automatically be logged as a page view. Each instance needs to only be passed to Flurry agent once. Multiple `UINavigationController` or `UITabBarController` instances can be passed to Flurry agent.

```
[Flurry logPageView];
```

In the absence of UINavigationController and UITabBarController, you can manually detect user interactions. For each user interaction you want to manually log, you can use logPageView to log the page view.

Tracking Application Errors

```
[Flurry logError:@"ERROR_NAME" message:@"ERROR_MESSAGE" exception:e];
```

Use this to log exceptions and/or errors that occur in your app. Flurry will report the first 10 errors that occur in each session.

Tracking Demographics

```
[Flurry setUserID:@"USER_ID"];
```

Use this to log the user's assigned ID or username in your system after identifying the user.

```
[Flurry setAge:21];
```

Use this to log the user's age after identifying the user. Valid inputs are 0 or greater.

```
[Flurry setGender:@"m"];
```

Use this to log the user's gender after identifying the user. Valid inputs are `m` (male) or `f` (female)

Tracking Location

```
CLLocationManager *locationManager = [[CLLocationManager alloc] init];  
[locationManager startUpdatingLocation];
```

```
CLLocation *location = locationManager.location;  
[Flurry setLatitude:location.coordinate.latitude  
         longitude:location.coordinate.longitude  
         horizontalAccuracy:location.horizontalAccuracy  
         verticalAccuracy:location.verticalAccuracy];
```

This allows you to set the current GPS location of the user. Flurry will keep only the last location information. If your app does not use location services in a meaningful way, using CLLocationManager can result in Apple rejecting the app submission.

Controlling Data Reporting

```
[Flurry setSessionReportsOnCloseEnabled:(BOOL)sendSessionReportsOnClose];
```

This option is on by default. When enabled, Flurry will attempt to send session data when the app is exited as well as it normally does when the app is started. This will improve the speed at which your application analytics are updated but can prolong the app termination process due to network latency.

```
[Flurry setSessionReportsOnPauseEnabled:(BOOL)sendSessionReportsOnPause];
```

This option is off by default. When enabled, Flurry will attempt to send session data when the app is paused as well as it normally does when the app is started. This will improve the speed at which your application analytics are updated but can prolong the app pause process due to network latency.

```
[Flurry setSecureTransportEnabled:(BOOL)secureTransport];
```

This option is off by default. When enabled, Flurry will send session data over SSL when the app is paused as well as it normally does when the app is started. This has the potential to prolong the app pause process due to added network latency from secure handshaking and encryption.

4. Recommendations

We recommend adding an uncaught exception listener to your application (if you don't already have one) and use logError to record any application crashes.

Adding an uncaught exception listener is easy; you just need to create a function that looks like the following:

```
void uncaughtExceptionHandler(NSException *exception) {  
    [Flurry logError:@"Uncaught" message:@"Crash!" exception:exception];  
}
```

```
}
```

You then need to register this function as an uncaught exception listener as follows:

```
- (void)applicationDidFinishLaunching:(UIApplication *)application {  
   NSSetUncaughtExceptionHandler(&uncaughtExceptionHandler);  
    [Flurry startSession:@"YOUR_API_KEY"];  
    ....  
}
```

Note that you can name the function whatever you'd like and record whatever error information you'd like in the error name and event fields.

5. FAQ

How much does the Flurry Analytics SDK add to my app size?

The Flurry SDK will typically add 150 KB to the final app size.

When does the Flurry Agent send data?

By default, the Flurry Agent will send the stored metrics data to Flurry servers when the app starts, resumes, and terminates. To override default Agent behavior, you can turn off sending data on termination by adding the following call before you call `startSession`:

```
[Flurry setSessionReportsOnCloseEnabled:NO];
```

Sending metrics data when the app pauses, but not enabled by default. You can enable sending data on pause with `startSession`:

```
[Flurry setSessionReportsOnPauseEnabled:YES];
```

How much data does the Agent send each session?

All data sent by the Flurry Agent is sent in a compact binary format. The total amount of data can vary but in most cases it is around 2Kb per session.

What data does the Agent send?

The data sent by the Flurry Agent includes time stamps, logged events, logged errors, and various device specific information. This is the same information that can be seen in the custom event logs on in the Event Analytics section. We do not collect personally identifiable information.

Does the Agent support iOS OS 3.x?

Yes, this version is a fat binary that includes slices for armv6, armv7, armv7s and i386. Support is provided for iOS 3.1 to iOS 6.

What version of XCode is required?

The Flurry SDK will support Xcode 4.0 and above. Please email support if you need to use older versions of the Flurry SDK.

Does this version collect the iOS UDID?

This version of the Flurry iOS SDK does not collect the iOS UDID.

Please let us know if you have any questions. If you need any help, just email iphonesupport@flurry.com!

Cheers,
The Flurry Team
<http://www.flurry.com>
iphonesupport@flurry.com