



# iOS SDK Developer Documentation

## Cobub Razor

### Version 1.0

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File:	Cobub Razor Developer Documentation(iOS).doc		Status:		
Date:	2012-03-07		File NO.		

## Document Management

### Change Records

Version	Status	Date	Person in Charge	Change Reason
1.0	Publish	2012-03-07	Western Bridge Tech	Publish Version

## Contents

<b>1</b>	<b>Overview .....</b>	<b>4</b>
1.1	Documentation Goal .....	4
1.2	Application Scope .....	4
1.3	Terms and Abbreviations .....	4
1.4	Relevant Documentation .....	4
<b>2</b>	<b>Usage Instructions.....</b>	<b>4</b>
2.1	Create APP.....	4
2.2	Use SDK.....	4
2.2.1	Download SDK .....	4
2.2.2	Import SDK.....	4
2.2.3	Add Dependent Framework.....	5
2.2.4	Setup Other Linker Flags .....	5
2.2.5	Embed Code .....	6
2.2.6	Use Custom Event.....	6
2.2.7	Auto Update .....	7
2.2.8	Online Configuration .....	7
2.2.9	Adjust Sending Policy Dynamically.....	7
2.2.10	Record Page View .....	7

## 1 Overview

### 1.1 Documentation Goal

The goal of this document is to provide guide for iOS SDK developers.

### 1.2 Application Scope

This document is for iOS SDK developers

### 1.3 Terms and Abbreviations

Cobub Razor     Mobile Applications Analytics

### 1.4 Relevant Documentation

None

## 2 Usage Instructions

### 2.1 Create APP

Register and login management platform. Select channel type, add a new App and then obtain AppKey of this App.

### 2.2 Use SDK

#### 2.2.1 Download SDK

Download the latest release of SDK and Unzip it. Once unzipped, you could see two files, UMSAgent.h and libUMSAgent.a.

#### 2.2.2 Import SDK

Select Add->Existing files in project directory and select the two unzipped files above, or drag two files to project directory directly. Select Copy Items into destination group's folder(if needed).

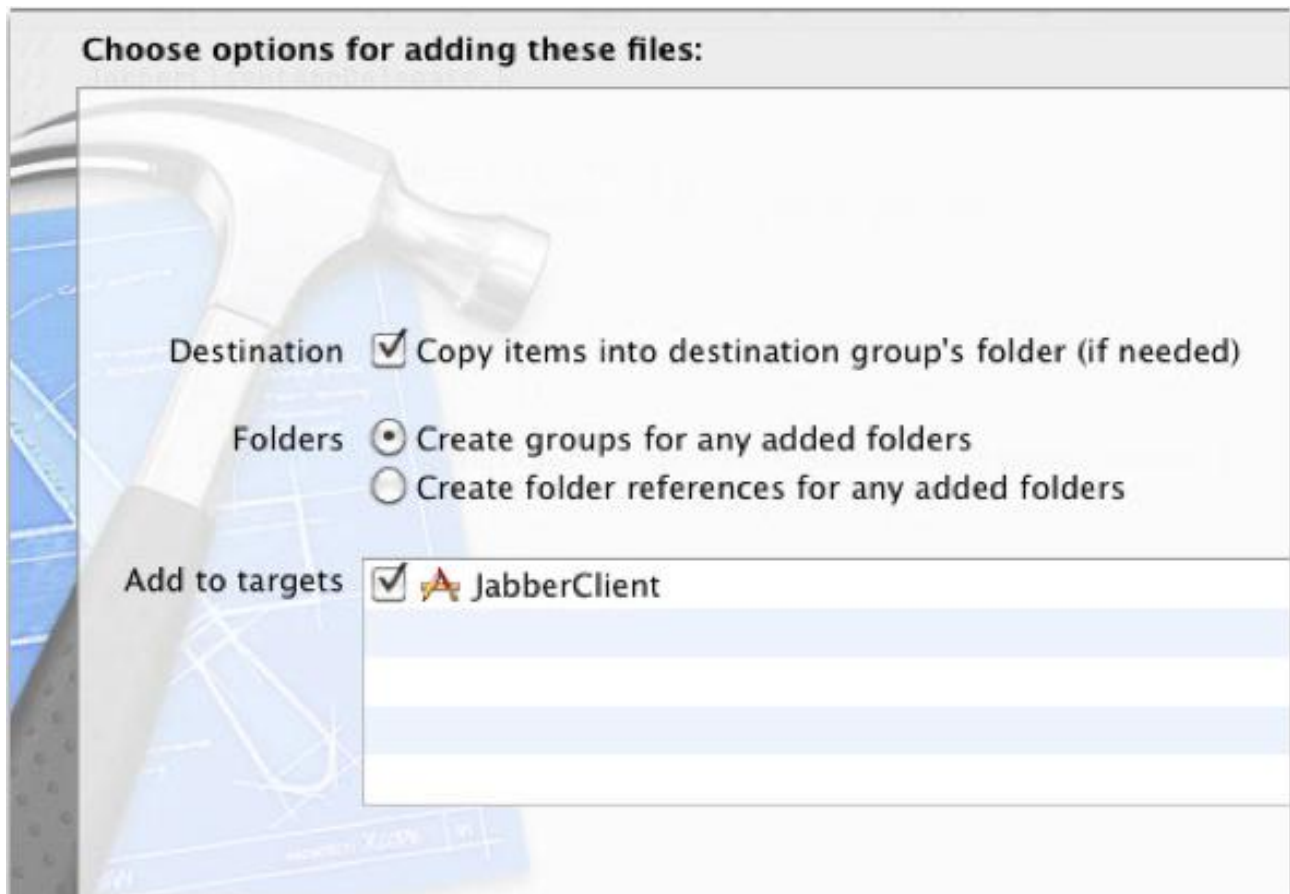


Fig. 2-1 Import SDK

### 2.2.3 Add Dependent Framework

To obtain network info and operator logo, you need adding CoreTelephony Class Library.(show as fig. 2-2 Add Framework)

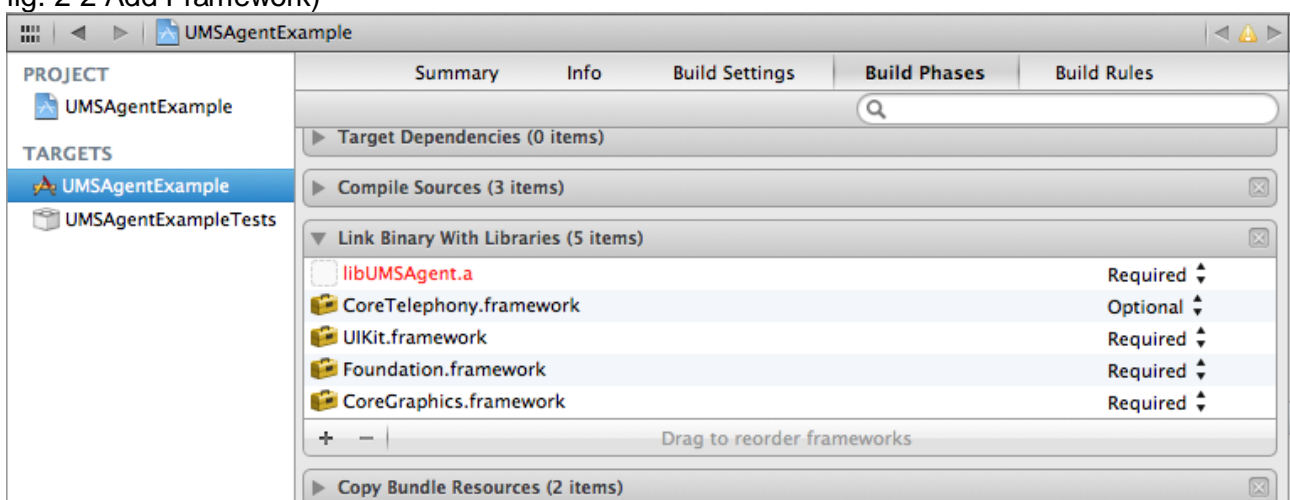


Fig. 2-2 Add Framework

### 2.2.4 Setup Other Linker Flags

Add `-all_load` and `-ObjC` flags (Show as Fig. 2-3 Add Linker Flags)

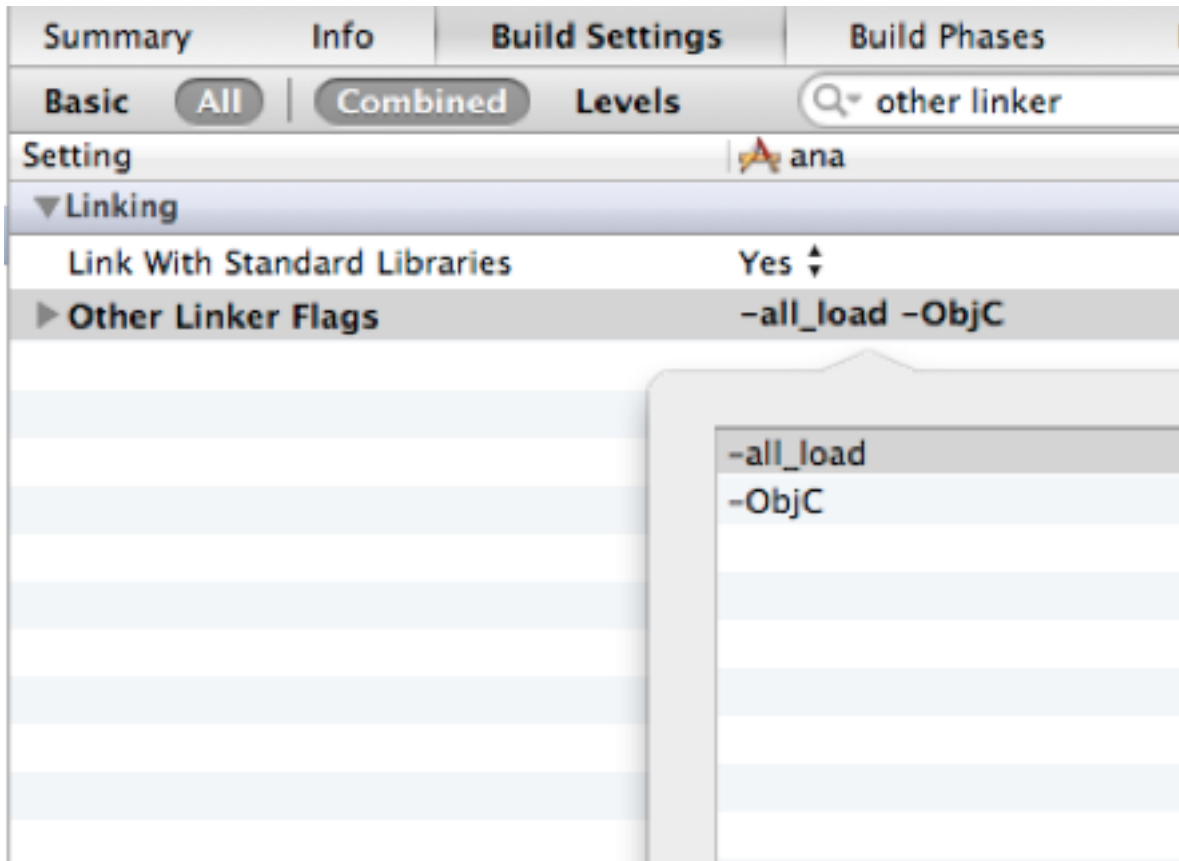


Fig. 2-3 Add Linker Flags

### 2.2.5 Embed Code

Add `#import "UMSAgent.h"` into `AppDelegate.h`. Add following method into `didFinishLaunchingWithOptions` method of `AppDelegate.m`:

```
- (BOOL)application:(UIApplication *)application didFinishLaunchingWithOptions:(NSDictionary *)launchOptions
{
    [UMSAgent startWithAppKey:@"UMSAgentKey" ReportPolicy:BATCH];
}
```

Fig. 2-4 Set UMSAgentKey

UMSAgentKey is the AgentKey obtained from registering App in Cobub Razor.

BATCH model means that uploading data once when system starts next time

Please modify BATCH to REALTIME if you want to use real-time model.

BATCH model is recommended. It can reduce interaction between App and network, save traffic and improve user experience

### Usage Duration Analytics

Cobub Razor platform defines intervals between entering front and entering background of App every time as a lifecycle process. Cobub Razor makes lifecycle as data and submits it to background. It provides corresponding statistics reports for developers.

### 2.2.6 Use Custom Event

Custom event is used to provide more detailed user behavior analysis for developers. Adding custom event in Cobub Razor background in advance before using it and obtaining `Event_identifier` of event. Thus, the system can do corresponding processing in background. Otherwise, it do not process unregistered event of client.

### 2.2.6.1 Simple Event

Simple event is used to do statistics on numbers of specified event\_id that is called and generate corresponding reports.

```
+(void)postEvent:(NSString *)event_id;
```

### 2.2.6.2 Multi-Tag Event

The difference between multi-tag event and simple event is that user can set tag for event\_id.

```
+(void)postEvent:(NSString *)event_id label:(NSString *)label;
```

### 2.2.6.3 Accumulative Event

Accumulative Event is used for event that is called frequently. To improve network efficiency, a counter can be defined in client and results can be uploaded for one time .

```
+(void)postEvent:(NSString *)event_id acc:(NSInteger)acc;
```

### 2.2.6.4 Accumulative Multi-Tag Event

Accumulative multi-Tag event contains features of multi-tag event and accumulative event.

```
+(void)postEvent:(NSString *)event_id label:(NSString *)label acc:(NSInteger)acc;
```

## 2.2.7 Auto Update

Upload version to different channels in Cobub Razor background. Cobub Razor background provides a single Key for every channel of every App. Please change to different Key when providing update for different channels.

User need to call following code to use auto update:

```
[UMSAgent checkUpdate];
```

Note: this statement should be called after executing SetDelegate code:

```
[UMSAgent setDelegate:self reportPolicy:REALTIME];
```

## 2.2.8 Online Configuration

Online parameter data can be updated to local on client side after user set parameter value on server side. Using online parameter needs to call following codes after SetDelegate.

```
[UMSAgent setDelegate:self reportPolicy:REALTIME];|  
[UMSAgent setOnlineConfig>false];
```

## 2.2.9 Adjust Sending Policy Dynamically

User can call following codes to send data by using configuration policy of server.

Using this funtion needs to call following codes immediately after SetDelegate.

```
[UMSAgent setDelegate:self reportPolicy:REALTIME];|  
[UMSAgent setOnlineConfig>false];
```

## 2.2.10 Record Page View

User can call methods provided by sdk to record numbers and time of page views when entering page and jumping out of page.

```
+(void)startTracPage:(NSString*)page_name;
```

```
+(void)endTracPage:(NSString*)page_name;
```

Call following code when entering page:

```
[UMSAgent endTracPage:@"GWTEST"];
```

Call following code when jumping out of page:

```
[UMSAgent startTracPage:@"GWTEST"];
```