

# 如何保存和唐智慧手表 iOS SDK 日志

## HOW TO SAVE FITCLOUD iOS SDK LOGS

### 1. 调试模式 / debug mode

调试模式是指在使用 Xcode 进行调试时 SDK 会在 Xcode 的控制台里输出 SDK 的日志以方便您集成/调试 SDK；反之，当您将您的版本发布到线上时建议您关闭调试模式，这时您可以通过 SDK 的回调方法获取 SDK 的日志，并将它们保存到文件，又或者上传到您的服务器以便追踪 SDK 运行时产生的错误信息，从而帮助改进您的 APP。

Debug mode means that when you debugging app with Xcode, the SDK will output the SDK log in the Xcode console to facilitate your integration/debugging of the SDK; In the other while, it is recommended that you turn off the debug mode when you publish your app to the production environment. And now you can use the SDK callback method to get the SDK logs and save them to a file, or upload them to your server to track the error messages generated during the SDK runtime, I think it would be helpful to improve your app.

### 2. 如何保存FitCloudKit的日志 / how to save FitCloudKit logs

#### ① 初始化 FitCloudKit

Intialize the FitCloudKit

```
FitCloudOption *option = [FitCloudOption defaultOption];
option.debugMode = NO;
option.shouldAutoReconnectWhenAppLaunch = YES;
FitCloudKit* fitCloudKit = [FitCloudKit initWithOption:option callback:self];
```

⚠注意(Note): 1. set debugMode to NO; 2. Make sure and keep the callback instance not to be nil;

#### ② 实现 FitCloudCallback 代理回调

implement the FitCloudCallback delegate

```
/**
 * @brief 记录日志数据
 * @param message 日志信息
 * @param level 日志等级
 */
-(void) OnLogMessage:(NSString*)message level:(FITCLOUDKITLOGLEVEL)level
{
    message = [[message stringByReplacingOccurrencesOfString:@"<" withString:@"["]
stringByReplacingOccurrencesOfString:@">" withString:@"]"];
    if(level == FITCLOUDKITLOGLEVEL_INFO)
    {
        // XLOG_INFO(@"%@", message);
    }
    else if(level == FITCLOUDKITLOGLEVEL_WARNING)
    {
        // XLOG_WARNING(@"%@", message);
    }
    else if(level == FITCLOUDKITLOGLEVEL_ERROR)
    {
        // XLOG_ERROR(@"%@", message);
    }
}
```

⚠注意(Note): save the log message with a pretty format, with the log time accurate to millisecond, and also with a good new line

### 3. 睡眠调试数据 / debugging data for sleep

SDK 支持获取当天的睡眠调试数据，这在绑定手表的情况下任何时候均可以获取，且手表端不会在请求获取后丢弃这部分数据，换句话说您可以重复/多次请求获取这部分数据，因此当你怀疑您的睡眠数据同步存在问题的时候，你可以通过睡眠调试数据帮助定位问题。

The SDK supports getting the sleep debugging data of the day, which can be obtained at any time when the watch is connected and paired with your app, and the watch side will not discard this part of the data after the request. In other words, you can request to get this part of the data repeatedly / many times. Therefore, when you suspect that there is a problem with your sleep data synchronization, it would be helpful to locate the problem with the sleep debugging data.

#### ① 请求睡眠调试数据

Request the sleep debugging data

```
[FitCloudKit requestSleepDebugDataWithBlock:^(BOOL succeed, NSError *error) {
    if([error isKindOfClass:[NSError class]])
    {
        NSString* errorString = error.localizedDescription;
        // XLOG_ERROR(@"%@", APP_LOG_STRING(@"%@", errorString));
        return;
    }
}];
```



② 实现 FitCloudCallback 代理回调

implement the FitCloudCallback delegate

```
/**
 * @brief 睡眠调试数据
 */
-(void)OnSleepDebugData:(FitCloudSleepDebugData *)sleepDebugData
{
    // save the sleep debug data to log file
}
```

4. 如何保存FitCloudDFUKit的日志 / how to save FitCloudDFUKit logs

类似 FitCloudKit, FitCloudDFUKit 也是通过代理的方式将 SDK 的日志回调给你的 app，因此获取保存 SDK 日志的方式与前者相似。

Similar to FitCloudKit, FitCloudDFUKit also send SDK logs to your app with the delegate callback, so the method to get and save SDK logs is similar.

① 设置代理

Set up the delegate

```
[FitCloudDFUKit setDebugMode:NO];
[FitCloudDFUKit setDelegate:self];
```

② 实现 FitCloudDFUDelegate 代理回调

implement the FitCloudDFUDelegate

```
/**
 * @brief 日志信息回调
 * @param message 日志信息
 * @param level 日志等级
 */
-(void) OnLogMessage:(NSString*)message level:(FCDFUKLogLevel)level
{
    //process and save the logs here
}
```

5. 如何保存FitCloudWFKit的日志 / how to save FitCloudWFKit logs

FitCloudWFKit 通过 logging block 回调日志给你的 app，因此您在 logging block 处理保存您的日志。

The FitCloudWFKit logs is callback with the logging block, as a result, you should save the sdk logs from the logging block.

```
NSString* templateBinPath = [[NSBundle mainBundle] pathForResource:@"240USER_DEFAULT_20200618142928_MP-cc0c13932ab8ca2f89301678993cfdeb" ofType:@"bin"];

[FitCloudWFKit createWithTemplateBin:templateBinPath bkImage:resolvedBKImage bkCornerRadius:0
preview:resolvedPreviewImage dtPosition:_watchfaceStyle.dtPosition progress:^(CGFloat progress, NSString * _Nullable message) {

} logging:^(FCWKLOGLEVEL level, NSString * _Nullable message) {
    //process and save the logs here
} completion:^(BOOL success, NSString * _Nullable resultBinPath, UIImage * _Nullable resultBkImage, UIImage * _Nullable resultPreview, NSError * _Nullable error) {

}];
```

```
NSString* templateBinPath = [[NSBundle mainBundle] pathForResource:@"240USER_DEFAULT_20200618142928_MP-cc0c13932ab8ca2f89301678993cfdeb" ofType:@"bin"];

[FitCloudWFKit modifyWatchfaceBinPushIndexTo:1 fromTemplateBin:templateBinPath logging:^(FCWKLOGLEVEL level, NSString * _Nullable message) {
    //process and save the logs here
} completion:^(BOOL success, NSString* _Nullable resultBinPath, NSError* _Nullable error) {

}];
```

6. 日志文件名后缀 / log file name suffix

我们希望您将您的日志文件文件名后缀保存为 .log。

It would be better to save your log file name suffix as .log.



issue.log

7. 将日志记录到同一个日志文件 / save the logs to the same log file

将 FitCloudKit / FitCloudDFUKit / FitCloudWFKit 的日志记录到同一个日志文件，这将大大方便我们对日志进行分析。  
Log FitCloudKit / FitCloudDFUKit / FitCloudWFKit to the same log file, which will greatly facilitate our analysis of logs.

8. 告诉我们问题发生的时间区间 / tell us when the issue occurred

尽可能告诉我们问题发生的时间区间，这将大大地帮助我们缩短分析问题的时间。  
Try to tell us when the issue occurred, which will greatly help us to shorten the time of analyzing the issue.

9. 日志文件应该与问题(截图或视频)相匹配 / the log file should be match to the issue

您发给我们的日志文件应该与您提问的问题相匹配，而不是任意的日志文件。  
The log file you send to us should be match to the issue you occurred.

10. 美观且易读的日志时间 / pretty and readable log time

您发给我们的日志文件应该清晰美观且易读地记录日志所对应的时间，以下是一个推荐的时间记录格式。  
The log file you send to us should be clear, pretty and with readable log time. And the following log time format is recommended.

```
2023-06-01 15:23:32.725 FitCloudPro[670:25302] [🔥FitCloudKit] +[FitCloudKit initWithOption:callback:] (line 2231) 🔥FitCloudK
2023-06-01 15:23:32.732 FitCloudPro[670:25302] [🔥FitCloudKit] -[FitCloudKit tryAutoConnectWhenLaunch] (line 980) 最后一次连接的手
2023-06-01 15:23:32.733 FitCloudPro[670:9045043] [🔥FitCloudKit] -[FitCloudKit tryAutoConnectWhenLaunch]_block_invoke (line 993
2023-06-01 15:23:32.733 FitCloudPro[670:9045043] [🔥FitCloudKit] +[FitCloudKit internalConnect:btMode:] (line 2457) 开始连接手表

.....
```