

iOS

Prerequisites

The following requirements are necessary to begin debugging an application:

1. **A debuggable application build:**
 - a. Debug logs should be enabled.
 - b. SSL-pinning should be disabled.
2. **Brief context of the project:**
 - a. What is the identifier of the customer?
 - b. What is the URL for sending data?
 - c. How is the user identifier transmitted?
 - d. What capabilities should be enabled?
3. **Credentials for testing.**

How to debug the application?

The detailed logging of iOS SDK operation is available in Console.app by filtering “com.group-ib.GIBMobileSDK” for any build (release or debug).

1. After launching the debug app, verify that SDK is initialized with the correct parameters such as:
 - a. Identifier of the customer (mandatory).
 - b. URL for sending data (mandatory).
 - c. List of capabilities enabled.

Sample logs:

```
1 [VERBOSE] Customer Id is set: gib-i-sgdemo
2 [VERBOSE] Target URL is set: https://sgbe.group-ib.com/api/fl
3 [VERBOSE] GIBMobileSdk.SwizzleCapability: run call
4 [VERBOSE] GIBMobileSdk.BehaviorCapability: run call
5 [VERBOSE] GIBMobileSdk.MotionCapability: run call
6 [VERBOSE] GIBMobileSdk.CellularCapability: run call
7 [VERBOSE] GIBMobileSdk.NetworkCapability: run call
8 [VERBOSE] GIBMobileSdk.ProxyCapability: run call
9 [VERBOSE] GIBMobileSdk.LocationCapability: run call
10 [VERBOSE] GIBMobileSdk.CloudIdentifierCapability: run call
```

2. Ensure that user and session identifiers are transmitted correctly when user successfully signs into the application. Depending on the project requirement, there may be some scenario where specific additional attributes are transmitted.

Sample logs:

```
1 [INFO] Set attribute {
2     attr = ht;
3     title = "user_id";
4 }
5 [INFO] Set Session ID: 5AB03DDE-FC56-4D4E-85AF-8CC6DAC96C70
6 [VERBOSE] packet id 8C02652D-6418-44D6-8A68-94114D13CFA1 contains attributes: (
7     {
8         key = "__SESSION_ID";
```

```
9      time = 1714718435661;
10     value = "5AB03DDE-FC56-4D4E-85AF-8CC6DAC96C70";
11 },
12 {
13     key = "user_id";
14     time = 1714718435660;
15     value = ht;
16 }
17 )
```

3. Note that Cloud ID should be present and related to a user when implemented correctly.

Refer to FP wiki for more details on the comprehensive list of capabilities:

[https://fpwiki.group-ib.tech/Integration/ios_sdk/#enableCapability method](https://fpwiki.group-ib.tech/Integration/ios_sdk/#enableCapability%20method)

4. Finally, ascertain that data collected by the SDK are presented in the Admin Panel properly.

Error handling

Depending on the error type, a meeting may be required with their developers to deep dive into the root cause.