

Technical report: Analysis of Android app “Sample App!”

1. Introduction

This report details the findings and methodology of an automated analysis concerning tracking and similar data transmissions performed on the Android app “Sample App!” (henceforth: “the app”) through the Tweasel project, operated by Datenanfragen.de e. V. The analysis was performed on December 7, 2023 at 1:18:11 PM GMT+1 on version 0.32.3 of the app on Android 13.

2. Findings

During the analysis, the network traffic initiated by the app was recorded. In total, 34 requests were recorded between April 7, 2023 at 3:04:57 PM GMT+2 and April 7, 2023 at 3:05:12 PM GMT+2. The recorded traffic is attached as a HAR file (MD5 checksum of the HAR file: 1234567890abcdef1234567890abcdef), a standard format used by HTTP(S) monitoring tools to export collected data.¹ HAR files can be viewed using Firefox or Chrome, for example.² The contents of the recorded traffic are also reproduced in Appendix A1.

2.1. Network traffic without any interaction

The requests described in this sections happened **without any interaction** with the app or any potential consent dialogs.

In total, there were 7 requests detected that transmitted data to 4 trackers without any interaction.

2.1.1. smartbear/bugsnag-sessions (TODO: nicer title)

The app sent the following 1 requests to the tracker “smartbear/bugsnag-sessions” (TODO: nicer title) (TODO: tracker URL), operated by “SmartBear Software”.

2.1.1.1. POST request to sessions.bugsnag.com (3:04:57 PM)

On April 7, 2023 at 3:04:57 PM GMT+2, the app sent a POST request to sessions.bugsnag.com. This request is reproduced in Appendix 1.1.

The following information was detected as being transmitted through this request:

- a. Tracker SDK version (transmitted as `notifier.version` with the value 5.28.4)
- b. App version (transmitted as `app.version` with the value 23.13.1)
- c. App version (transmitted as `app.versionCode` with the value 26004526)
- d. App ID (transmitted as `app.id` with the value `com.airbnb.android`)
- e. Architecture (transmitted as `device.cpuAbi` with the value `x86_64`)
- f. OS name (transmitted as `device.osName` with the value `android`)
- g. OS version (transmitted as `device.osVersion` with the value 13)
- h. Is device rooted? (transmitted as `device.jailbroken` with the value `false`)

¹<http://www.softwareishard.com/blog/har-12-spec/>

²TODO: <https://github.com/tweaselORG/docs.tweasel.org/issues/7>

- i. Manufacturer (transmitted as `device.manufacturer` with the value `Google`)
- j. Model (transmitted as `device.model` with the value `sdk_gphone64_x86_64`)
- k. Language (transmitted as `device.locale` with the value `en_US`)
- l. Total RAM (transmitted as `device.totalMemory` with the value `2061852672`)
- m. Other identifiers (transmitted as `device.id` with the value `ad2140b6-25f1-42d7-b45c-4c0e224ca64f`)
- n. Other identifiers (transmitted as `sessions.*.user.id` with the value `7d5a6fd0d53a566b`)
- o. Other identifiers (transmitted as `sessions.*.id` with the value `ea5d71aa-0ecc-4d81-ac29-e7dedf9d0a43`)
- p. App start time (transmitted as `sessions.*.startedAt` with the value `2023-03-20T16:35:24.304Z`)

2.1.2. facebook/graph-activities-qs (TODO: nicer title)

The app sent the following 2 requests to the tracker “facebook/graph-activities-qs” (TODO: nicer title) (TODO: tracker URL), operated by “Facebook”.

2.1.2.1. POST request to `graph.facebook.com` (3:04:57 PM)

On April 7, 2023 at 3:04:57 PM GMT+2, the app sent a POST request to `graph.facebook.com`. This request is reproduced in Appendix 1.2.

The following information was detected as being transmitted through this request:

- a. Device advertising ID (transmitted as `advertiser_id` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)
- b. Other identifiers (transmitted as `anon_id` with the value `XZ9dd82044-772f-4b99-b17b-208e9c3cc38b`)
- c. OS name (transmitted as `sdk` with the value `android`)
- d. App ID (transmitted as `extinfo.1` with the value `com.airbnb.android`)
- e. App ID (transmitted as `application_package_name` with the value `com.airbnb.android`)
- f. App version (transmitted as `extinfo.2` with the value `26004526`)
- g. App version (transmitted as `extinfo.3` with the value `23.13.1`)
- h. OS version (transmitted as `extinfo.4` with the value `13`)
- i. Model (transmitted as `extinfo.5` with the value `sdk_gphone64_x86_64`)
- j. Language (transmitted as `extinfo.6` with the value `en_US`)
- k. Time zone (transmitted as `extinfo.7` with the value `GMT+01:00`)
- l. Time zone (transmitted as `extinfo.15` with the value `Europe/Berlin`)
- m. Carrier (transmitted as `extinfo.8` with the value `T-Mobile`)
- n. Screen width (transmitted as `extinfo.9` with the value `1080`)
- o. Screen height (transmitted as `extinfo.10` with the value `2214`)
- p. Total disk space (transmitted as `extinfo.13` with the value `8`)
- q. Free disk space (transmitted as `extinfo.14` with the value `6`)

2.1.2.2. POST request to `graph.facebook.com` (3:05:12 PM)

On April 7, 2023 at 3:05:12 PM GMT+2, the app sent a POST request to `graph.facebook.com`. This request is reproduced in Appendix 1.6.

The following information was detected as being transmitted through this request:

- a. Device advertising ID (transmitted as `advertiser_id` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)
- b. Other identifiers (transmitted as `anon_id` with the value `XZ9dd82044-772f-4b99-b17b-208e9c3cc38b`)
- c. OS name (transmitted as `sdk` with the value `android`)
- d. App ID (transmitted as `extinfo.1` with the value `com.airbnb.android`)
- e. App ID (transmitted as `application_package_name` with the value `com.airbnb.android`)
- f. App version (transmitted as `extinfo.2` with the value `26004526`)
- g. App version (transmitted as `extinfo.3` with the value `23.13.1`)
- h. OS version (transmitted as `extinfo.4` with the value `13`)
- i. Model (transmitted as `extinfo.5` with the value `sdk_gphone64_x86_64`)
- j. Language (transmitted as `extinfo.6` with the value `en_US`)
- k. Time zone (transmitted as `extinfo.7` with the value `GMT+01:00`)
- l. Time zone (transmitted as `extinfo.15` with the value `Europe/Berlin`)
- m. Carrier (transmitted as `extinfo.8` with the value `T-Mobile`)
- n. Screen width (transmitted as `extinfo.9` with the value `1080`)
- o. Screen height (transmitted as `extinfo.10` with the value `2214`)
- p. Total disk space (transmitted as `extinfo.13` with the value `8`)
- q. Free disk space (transmitted as `extinfo.14` with the value `6`)

2.1.3. branch-io/v1 (TODO: nicer title)

The app sent the following 3 requests to the tracker “branch-io/v1” (TODO: nicer title) (TODO: tracker URL), operated by “Branch Metrics, Inc.”.

2.1.3.1. POST request to `api2.branch.io` (3:04:57 PM)

On April 7, 2023 at 3:04:57 PM GMT+2, the app sent a POST request to `api2.branch.io`. This request is reproduced in Appendix 1.3.

The following information was detected as being transmitted through this request:

- a. Device advertising ID (transmitted as `google_advertising_id` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)
- b. Device advertising ID (transmitted as `advertising_ids.aaid` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)
- c. Other identifiers (transmitted as `hardware_id` with the value `048f96ec-220f-4860-95c4-62b2565dbbd3`)
- d. Other identifiers (transmitted as `device_fingerprint_id` with the value `1172860168313205995`)
- e. Other identifiers (transmitted as `identity_id` with the value `1172860168363571074`)
- f. Manufacturer (transmitted as `brand` with the value `Google`)
- g. Model (transmitted as `model` with the value `sdk_gphone64_x86_64`)
- h. Screen width (transmitted as `screen_width` with the value `1080`)
- i. Screen height (transmitted as `screen_height` with the value `2214`)
- j. Network connection type (transmitted as `connection_type` with the value `wifi`)

- k. OS name (transmitted as `os` with the value `Android`)
- l. OS version (transmitted as `os_version_android` with the value `13`)
- m. OS version (transmitted as `os_version` with the value `33`)
- n. Language (transmitted as `language` with the value `en`)
- o. Language (transmitted as `locale` with the value `en_US`)
- p. Local IP address(es) (transmitted as `local_ip` with the value `10.0.0.1`)
- q. Architecture (transmitted as `cpu_type` with the value `x86_64`)
- r. Carrier (transmitted as `device_carrier` with the value `T-Mobile`)
- s. Country (transmitted as `country` with the value `US`)
- t. App version (transmitted as `app_version` with the value `23.13.1`)
- u. Tracker SDK version (transmitted as `sdk` with the value `android5.0.3`)

2.1.3.2. POST request to api2.branch.io (3:04:58 PM)

On April 7, 2023 at 3:04:58 PM GMT+2, the app sent a POST request to `api2.branch.io`. This request is reproduced in Appendix 1.4.

The following information was detected as being transmitted through this request:

- a. Device advertising ID (transmitted as `google_advertising_id` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)
- b. Device advertising ID (transmitted as `advertising_ids.aaaid` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)
- c. Other identifiers (transmitted as `hardware_id` with the value `58efd809-326b-4bbd-b9ee-34900c536c89`)
- d. Other identifiers (transmitted as `device_fingerprint_id` with the value `1172860168313205995`)
- e. Other identifiers (transmitted as `identity_id` with the value `1172860168363571074`)
- f. Manufacturer (transmitted as `brand` with the value `Google`)
- g. Model (transmitted as `model` with the value `sdk_gphone64_x86_64`)
- h. Screen width (transmitted as `screen_width` with the value `1080`)
- i. Screen height (transmitted as `screen_height` with the value `2214`)
- j. OS name (transmitted as `os` with the value `Android`)
- k. OS version (transmitted as `os_version` with the value `33`)
- l. Language (transmitted as `language` with the value `en`)
- m. Local IP address(es) (transmitted as `local_ip` with the value `10.0.0.1`)
- n. Country (transmitted as `country` with the value `US`)
- o. App version (transmitted as `app_version` with the value `23.13.1`)
- p. Tracker SDK version (transmitted as `sdk` with the value `android5.0.3`)

2.1.3.3. POST request to api2.branch.io (3:05:02 PM)

On April 7, 2023 at 3:05:02 PM GMT+2, the app sent a POST request to `api2.branch.io`. This request is reproduced in Appendix 1.5.

The following information was detected as being transmitted through this request:

- a. Device advertising ID (transmitted as `google_advertising_id` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)

- b. Device advertising ID (transmitted as `advertising_ids.aaid` with the value `1209d0b9-b959-42e6-b921-aa5d9d08c1af`)
- c. Other identifiers (transmitted as `hardware_id` with the value `c19d8fab-8e27-43e3-b854-e9a4c086c171`)
- d. Other identifiers (transmitted as `device_fingerprint_id` with the value `1172860168313205995`)
- e. Other identifiers (transmitted as `identity_id` with the value `1172860168363571074`)
- f. Manufacturer (transmitted as `brand` with the value `Google`)
- g. Model (transmitted as `model` with the value `sdk_gphone64_x86_64`)
- h. Screen width (transmitted as `screen_width` with the value `1080`)
- i. Screen height (transmitted as `screen_height` with the value `2214`)
- j. Network connection type (transmitted as `connection_type` with the value `wifi`)
- k. OS name (transmitted as `os` with the value `Android`)
 - l. OS version (transmitted as `os_version_android` with the value `13`)
- m. OS version (transmitted as `os_version` with the value `33`)
- n. Language (transmitted as `language` with the value `en`)
- o. Language (transmitted as `locale` with the value `en_US`)
- p. Local IP address(es) (transmitted as `local_ip` with the value `10.0.0.1`)
- q. Architecture (transmitted as `cpu_type` with the value `x86_64`)
- r. Carrier (transmitted as `device_carrier` with the value `T-Mobile`)
- s. Country (transmitted as `country` with the value `US`)
- t. App version (transmitted as `app_version` with the value `23.13.1`)
- u. Tracker SDK version (transmitted as `sdk` with the value `android5.0.3`)

2.1.4. smartbear/bugsnag-notify (TODO: nicer title)

The app sent the following 1 requests to the tracker “smartbear/bugsnag-notify” (TODO: nicer title) (TODO: tracker URL), operated by “SmartBear Software”.

2.1.4.1. POST request to notify.bugsnag.com (3:05:12 PM)

On April 7, 2023 at 3:05:12 PM GMT+2, the app sent a POST request to `notify.bugsnag.com`. This request is reproduced in Appendix 1.7.

The following information was detected as being transmitted through this request:

- a. Tracker SDK version (transmitted as `notifier.version` with the value `5.28.4`)
- b. Other identifiers (transmitted as `events.*.user.id` with the value `7d5a6fd0d53a566b`)
- c. Other identifiers (transmitted as `events.*.device.id` with the value `ad2140b6-25f1-42d7-b45c-4c0e224ca64f`)
- d. Other identifiers (transmitted as `events.*.session.id` with the value `ea5d71aa-0ecc-4d81-ac29-e7dedf9d0a43`)
- e. App ID (transmitted as `events.*.app.id` with the value `com.airbnb.android`)
- f. App version (transmitted as `events.*.app.version` with the value `23.13.1`)
- g. App version (transmitted as `events.*.app.versionCode` with the value `26004526`)
- h. Time spent in app (transmitted as `events.*.app.duration` with the value `15275`)
- i. Is app in foreground? (transmitted as `events.*.app.inForeground` with the value `true`)
- j. Architecture (transmitted as `events.*.device.cpuAbi` with the value `x86_64`)

- k. Manufacturer (transmitted as `events.*.device.manufacturer` with the value `Google`)
- l. Manufacturer (transmitted as `events.*.metaData.device.brand` with the value `google`)
- m. Model (transmitted as `events.*.device.model` with the value `sdk_gphone64_x86_64`)
- n. OS name (transmitted as `events.*.device.osName` with the value `android`)
- o. OS version (transmitted as `events.*.device.osVersion` with the value `13`)
- p. Free RAM (transmitted as `events.*.device.freeMemory` with the value `1099014144`)
- q. Total RAM (transmitted as `events.*.device.totalMemory` with the value `2061852672`)
- r. Is device rooted? (transmitted as `events.*.device.jailbroken` with the value `false`)
- s. Orientation (transmitted as `events.*.device.orientation` with the value `portrait`)
- t. Viewed page (transmitted as `events.*.context` with the value `GPExploreMapFragment`)
- u. App start time (transmitted as `events.*.session.startedAt` with the value `2023-03-20T16:35:24.304Z`)
- v. App name (transmitted as `events.*.metaData.app.name` with the value `Airbnb`)
- w. Is device an emulator? (transmitted as `events.*.metaData.device.emulator` with the value `false`)
- x. Network connection type (transmitted as `events.*.metaData.device.networkAccess` with the value `wifi`)
- y. Charging status (transmitted as `events.*.metaData.device.charging` with the value `false`)
- z. Screen height (transmitted as `events.*.metaData.device.screenResolution` with the value `2214x1080`)
- aa. Screen width (transmitted as `events.*.metaData.device.screenResolution` with the value `2214x1080`)
- ab. Battery level (transmitted as `events.*.metaData.device.batteryLevel` with the value `1`)

3. Method

TODO

Appendix

A1. Recorded traffic

Below is a reproduction of the recorded network requests that are mentioned in the report as documented in the attached HAR file. Only requests are shown, all responses are omitted. Binary request content is represented as a hexdump. Request content longer than 4,096 bytes is truncated. The full recorded traffic with all requests and including responses and full request content can be seen the in attached HAR file.

1.1. POST sessions.bugsnag.com (2023-04-07T13:04:57.209Z)

1.1.1. Request

1.1.1.1. General

Method POST

HTTP version HTTP/1.1

Scheme https

Host sessions.bugsnag.com

File name /

1.1.1.2. Query string parameters

none

1.1.1.3. Headers

Bugsnag-Integrity sha1 fa63058ec85b1346f2bcbaafc45709b6ca4f570

Bugsnag-Payload-Version 1.0

Bugsnag-API-Key aelad931c177067ffc6d8a95c78913ff

Content-Type application/json

Bugsnag-Sent-At 2023-03-20T16:35:24.305Z

Content-Length 714

User-Agent Dalvik/2.1.0 (Linux; U; Android 13; sdk_gphone64_x86_64 Build/TE1A.220922.012)

Host sessions.bugsnag.com

Connection Keep-Alive

Accept-Encoding gzip

1.1.1.4. Cookies

none

1.1.1.5. Content

```
{"notifier":{"name":"Android Bugsnag Notifier","version":"5.28.4","url":"https://bugsnag.com"},"app":{"binaryArch":"x86_64","id":"com.airbnb.android","releaseStage":"Release","type":"android","version":"23.13.1","versionCode":26004526},"device":{"cpuAbi":["x86_64"],"jailbroken":false,"id":"ad2140b6-25f1-42d7-b45c-4c0e224ca64f","locale":"en_US","manufacturer":"Google","model":"sdk_gphone64_x86_64","osName":"android","osVersion":"13","runtimeVersions":{"androidApiLevel":"33","osBuild":"sdk_gphone64_x86_64-userdebug 13 TE1A.220922.012 9302419
```

```
dev-keys"},"totalMemory":2061852672},"sessions":[{"id":"ea5d71aa-0ecc-4d81-ac29-e7dedf9d0a43","startedAt":"2023-03-20T16:35:24.304Z","user":{"id":"7d5a6fd0d53a566b"}}]}
```

1.2. POST graph.facebook.com (2023-04-07T13:04:57.640Z)

1.2.1. Request

1.2.1.1. General

Method POST

HTTP version HTTP/1.1

Scheme https

Host graph.facebook.com

File name /v14.0/138566025676/activities

1.2.1.2. Query string parameters

none

1.2.1.3. Headers

User-Agent FBAndroidSDK.14.1.1

Accept-Language en_US

Content-Type application/x-www-form-urlencoded

Content-Encoding gzip

Transfer-Encoding chunked

Host graph.facebook.com

Connection Keep-Alive

Accept-Encoding gzip

1.2.1.4. Cookies

none

1.2.1.5. Content

- Name: format
Value: json
- Name: sdk
Value: android
- Name: custom_events
Value: [{"_eventName":"fb_sdk_initialize","_eventName_md5":"d470d22f237aee69843355edba5a8178","_logTime":1679330124,"_ui":"unknown","share_lib_included":"1","applinks_lib_included":"1","gamingservices_lib_included":"1","messenger_lib_included":"1","login_lib_included":"1","all_lib_included":"1","core_lib_included":"1","_inBackground":"1","_implicitlyLogged":"1"},{"_eventName":"fb_mobile_deactivate_app","_eventName_md5":"92255b491a4e25b5d809edcf3665affe","_logTime":"1679327308","_ui":"SplashScreenActivity","_session_id":"536f5dea-50c9-4636-9fa9-3f48b147bf7f","fb_mobile_time_between_sessions":"session_quanta_19","fb_mobile_launch_source":"Unclassified","fb_mobile_app_interruptions":"0","_valueToSum":0.52},{"_eventName":"fb_mobile_activate_app","_eventNa


```
me_md5":"cb7f3b6cd294afce05e615d43ea7b9", "_logTime":1679330124, "_ui":"SplashScreenActivity", "_session_id":"536f5dea-50c9-4636-9fa9-3f48b147bf7f", "fb_mobile_launch_source":"Unclassified", "fb_mobile_pckg_fp":"5c53ef3a4d787ebf143d8906bd66d806", "fb_mobile_app_cert_hash":"p8kKmYg+6gSW2IZUV1Ls0Nd2uDk=\n"}]
```

- Name: event
Value: CUSTOM_APP_EVENTS
- Name: anon_id
Value: XZ9dd82044-772f-4b99-b17b-208e9c3cc38b
- Name: application_tracking_enabled
Value: true
- Name: advertiser_id_collection_enabled
Value: true
- Name: advertiser_id
Value: 1209d0b9-b959-42e6-b921-aa5d9d08c1af
- Name: advertiser_tracking_enabled
Value: true
- Name: extinfo
Value: ["a2", "com.airbnb.android", 26004526, "23.13.1", "13", "sdk_gphone64_x86_64", "en_US", "GMT+01:00", "T-Mobile", 1080, 2214, "2.75", 4, 8, 6, "Europe\Berlin"]
- Name: application_package_name
Value: com.airbnb.android

1.3. POST api2.branch.io (2023-04-07T13:04:57.948Z)

1.3.1. Request

1.3.1.1. General

Method POST

HTTP version HTTP/1.1

Scheme https

Host api2.branch.io

File name /v1/open

1.3.1.2. Query string parameters

none

1.3.1.3. Headers

Content-Type application/json

Accept application/json

User-Agent Dalvik/2.1.0 (Linux; U; Android 13; sdk_gphone64_x86_64 Build/TE1A.220922.012)

Host api2.branch.io

Connection Keep-Alive

Accept-Encoding gzip
Content-Length 1145

1.3.1.4. Cookies

none

1.3.1.5. Content

```
{"device_fingerprint_id":"1172860168313205995","identity_id":"1172860168363571074","hardware_id":"048f96ec-220f-4860-95c4-62b2565dbbd3","is_hardware_id_real":false,"brand":"Google","model":"sdk_gphone64_x86_64","screen_dpi":440,"screen_height":2214,"screen_width":1080,"wifi":true,"ui_mode":"UI_MODE_TYPE_NORMAL","os":"Android","os_version":33,"cpu_type":"x86_64","build":"sdk_gphone64_x86_64-userdebug 13 TE1A.220922.012 9302419 dev-keys","locale":"en_US","connection_type":"wifi","device_carrier":"T-Mobile","os_version_android":"13","country":"US","language":"en","local_ip":"10.0.0.1","app_version":"23.13.1","facebook_app_link_checked":false,"is_referrable":0,"debug":true,"update":1,"latest_install_time":1679326739158,"latest_update_time":1679326739158,"first_install_time":1679326739158,"previous_update_time":1679326739158,"environment":"FULL_APP","metadata":{},"advertising_ids":{"aaid":"1209d0b9-b959-42e6-b921-aa5d9d08c1af"},"lat_val":0,"google_advertising_id":"1209d0b9-b959-42e6-b921-aa5d9d08c1af","instrumentation":{"v1\open-qwt":"0"},"sdk":"android5.0.3","branch_key":"key_live_acoLMx3FLYwpho29ntf7vjnkEwjEoClF","retryNumber":0}
```

1.4. POST api2.branch.io (2023-04-07T13:04:58.933Z)

1.4.1. Request

1.4.1.1. General

Method POST
HTTP version HTTP/1.1

Scheme https

Host api2.branch.io

File name /v1/close

1.4.1.2. Query string parameters

none

1.4.1.3. Headers

Content-Type application/json

Accept application/json

User-Agent Dalvik/2.1.0 (Linux; U; Android 13; sdk_gphone64_x86_64 Build/TE1A.220922.012)

Host api2.branch.io

Connection Keep-Alive

Accept-Encoding gzip

Content-Length 767

1.4.1.4. Cookies

none

1.4.1.5. Content

```
{"device_fingerprint_id":"1172860168313205995","identity_id":"1172860168363571074","session_id":"1172871982187124389","app_version":"23.13.1","hardware_id":"58efd809-326b-4bbd-b9ee-34900c536c89","is_hardware_id_real":false,"brand":"Google","model":"sdk_gphone64_x86_64","screen_dpi":440,"screen_height":2214,"screen_width":1080,"wifi":true,"ui_mode":"UI_MODE_TYPE_NORMAL","os":"Android","os_version":33,"country":"US","language":"en","local_ip":"10.0.0.1","metadata":{"advertising_ids":{"aaaid":"1209d0b9-b959-42e6-b921-aa5d9d08c1af"},"lat_val":0,"google_advertising_id":"1209d0b9-b959-42e6-b921-aa5d9d08c1af","instrumentation":{"v1\close-qwt":"2","v1\open-brtt":"262"},"sdk":"android5.0.3","branch_key":"key_live_acoLMx3FLYwpho29ntf7vjnkEwjEoClF","retryNumber":0}
```

1.5. POST api2.branch.io (2023-04-07T13:05:02.366Z)

1.5.1. Request

1.5.1.1. General

Method POST

HTTP version HTTP/1.1

Scheme https

Host api2.branch.io

File name /v1/open

1.5.1.2. Query string parameters

none

1.5.1.3. Headers

Content-Type application/json

Accept application/json

User-Agent Dalvik/2.1.0 (Linux; U; Android 13; sdk_gphone64_x86_64 Build/TE1A.220922.012)

Host api2.branch.io

Connection Keep-Alive

Accept-Encoding gzip

Content-Length 1168

1.5.1.4. Cookies

none

1.5.1.5. Content

```
{"device_fingerprint_id":"1172860168313205995","identity_id":"1172860168363571074","hardware_id":"c19d8fab-8e27-43e3-b854-e9a4c086c171","is_hardware_id_real":false,"brand":"Google","model":"sdk_gphone64_x86_64","screen_dpi":440,"screen_height":2214,"screen_width":1080,"wifi":true,"ui_mode":"UI_MODE_TYPE_NORMAL","os":"Android","os_version":33,"cpu_type":"x86_64","build":"sdk_gphone64_x86_64-userdebug 13 TE1A.220922.012 9302419 dev-keys","locale":"en_US","connection_type":"wifi","device_carrier":"T-Mobile","os_version_android":"13","country":"US","language":"en","local_ip":"10.0.0.1","app_version":"23.13.1","facebook_app_link_checked":false,"is_referrable":0,"debug":true,"update":1,"latest_insta
```

ll_time":1679326739158,"latest_update_time":1679326739158,"first_install_time":1679326739158,"previous_update_time":1679326739158,"environment":"FULL_APP", "metadata":{},"advertising_ids":{"aaaid":"1209d0b9-b959-42e6-b921-aa5d9d08c1af"}, "lat_val":0,"google_advertising_id":"1209d0b9-b959-42e6-b921-aa5d9d08c1af", "instrumentation":{"v1\close-brtt":"323", "v1\open-qwt":"0"},"sdk":"android5.0.3", "branch_key":"key_live_acoLMx3FLYwpho29ntf7vjnkEwjEoClF", "retryNumber":0}

1.6. POST graph.facebook.com (2023-04-07T13:05:12.332Z)

1.6.1. Request

1.6.1.1. General

Method POST

HTTP version HTTP/1.1

Scheme https

Host graph.facebook.com

File name /v14.0/138566025676/activities

1.6.1.2. Query string parameters

none

1.6.1.3. Headers

User-Agent FBAndroidSDK.14.1.1

Accept-Language en_US

Content-Type application/x-www-form-urlencoded

Content-Encoding gzip

Transfer-Encoding chunked

Host graph.facebook.com

Connection Keep-Alive

Accept-Encoding gzip

1.6.1.4. Cookies

none

1.6.1.5. Content

- Name: format
Value: json
- Name: sdk
Value: android
- Name: custom_events
Value: [{"_eventName":"fb_sdk_settings_changed", "_eventName_md5":"5031a3763f200bcd1bb05019de1a8a7b", "_logTime":1679330129, "_ui":"unknown", "_session_id":"b1d5a43d-7b15-4467-8684-65bcdcl1a2596", "current":"13", "previous":"15", "initial":"12", "usage":"3", "_implicitlyLogged":"1"}, {"_eventName":"fb_sdk_settings_changed", "_eventName_md5":"5031a3763f200bcd1bb05019de1a8a7b", "_logTime":1679330129, "_ui":"unknown", "_session_id":"b1d5a43d-7b15-4467-8684-65bcdcl1a2596", "current":"14", "previous":"12", "initial":"12", "usage":"3", "_implicitlyLogged

```
": "1"}, {"_eventName": "fb_sdk_settings_changed", "_eventName_md5": "5031a3763f200bcd1bb05019de1a8a7b", "_logTime": 1679330129, "_ui": "unknown", "_session_id": "b1d5a43d-7b15-4467-8684-65bc1a2596", "current": "14", "previous": "12", "initial": "12", "usage": "3", "_implicitlyLogged": "1"}, {"_eventName": "fb_sdk_settings_changed", "_eventName_md5": "5031a3763f200bcd1bb05019de1a8a7b", "_logTime": 1679330129, "_ui": "unknown", "_session_id": "b1d5a43d-7b15-4467-8684-65bc1a2596", "current": "15", "previous": "14", "initial": "12", "usage": "3", "_implicitlyLogged": "1"}]
```

- Name: event
Value: CUSTOM_APP_EVENTS
- Name: anon_id
Value: XZ9dd82044-772f-4b99-b17b-208e9c3cc38b
- Name: application_tracking_enabled
Value: true
- Name: advertiser_id_collection_enabled
Value: true
- Name: advertiser_id
Value: 1209d0b9-b959-42e6-b921-aa5d9d08c1af
- Name: advertiser_tracking_enabled
Value: true
- Name: extinfo
Value: ["a2", "com.airbnb.android", 26004526, "23.13.1", "13", "sdk_gphone64_x86_64", "en_US", "GMT+01:00", "T-Mobile", 1080, 2214, "2.75", 4, 8, 6, "Europe\\Berlin"]
- Name: application_package_name
Value: com.airbnb.android

1.7. POST notify.bugsnap.com (2023-04-07T13:05:12.361Z)

1.7.1. Request

1.7.1.1. General

Method POST

HTTP version HTTP/1.1

Scheme https

Host notify.bugsnap.com

File name /

1.7.1.2. Query string parameters

none

1.7.1.3. Headers

Bugsnap-Integrity sha1 0ac1ba7a568c7ca61514baf703d198a6b7008224

Bugsnap-Payload-Version 4.0

Bugsnap-Api-Key aelad931c177067ffc6d8a95c78913ff
Bugsnap-Sent-At 2023-03-20T16:35:39.454Z
Content-Type application/json
Bugsnap-Stacktrace-Types android
Content-Length 127955
User-Agent Dalvik/2.1.0 (Linux; U; Android 13; sdk_gphone64_x86_64 Build/TE1A.220922.012)
Host notify.bugsnap.com
Connection Keep-Alive
Accept-Encoding gzip

1.7.1.4. Cookies

none

1.7.1.5. Content

```
{"apiKey":"aelad931c177067ffc6d8a95c78913ff","payloadVersion":"4.0","notifier":{"name":"Android Bugsnap Notifier","version":"5.28.4","url":"https://bugsnag.com"},"events":[{"context":"GPExploreMapFragment","metaData":{"App":{"git_sha":"fb8a2577c0ac5eeaabccacd3b405504ecbc02ea2","view_class_name":"GPExploreMapFragment","git_branch":"android-release-23.13","previous_view_class_name":"HomepageFragment","page_name":"SearchResultsMap","app_mode":"guest","module_name":"feat.explore.map","previous_page_name":"SearchResults","previous_module_name":"feat.explore"},"app":{"memoryTrimLevel":"None","memoryUsage":41326648,"totalMemory":47319981,"processName":"com.airbnb.android","activeScreen":"MvRxActivity","name":"Airbnb","memoryLimit":536870912,"lowMemory":false,"freeMemory":5993333},"throttle":{"mode":"c","throttle percentage":"0.5"},"Device":{"tablet":false,"device_type":"Google_sdk_gphone64_x86_64","play_services_available":0},"Dynamic Features":{"installation state":{"dynamic_china":"installed in: unknown"},"dynamic_clicktocall":"installed in: unknown","dynamic_dev":"installed in: unknown","dynamic_host":"installed in: unknown","dynamic_stripe":"installed in: unknown","dynamic_tensorflow":"installed in: unknown"},"installed this application instance":[],"failed this application instance":[],"user":{"loggedIn":false},"device":{"locationStatus":"allowed","emulator":false,"networkAccess":"wifi","charging":false,"screenDensity":2.75,"dpi":440,"screenResolution":"2214x1080","brand":"google","batteryLevel":1.0},"delivered experiments":{"experiments":["android_use_mock_epoxy_models_for_flexible_v2_shimmer_v0","android_pdp_image_return_transition_v2","android_explore_prefetch_p1","android_airlite_optimization_v1","decomposing_explore_m4_android","android_niobe_parsing_improvement","android_prefetch_p1_categories_v6"],"treatments":["android_use_mock_epoxy_models_for_flexible_v2_shimmer_v0:treatment","android_pdp_image_return_transition_v2:treatment","android_explore_prefetch_p1:treatment","android_airlite_optimization_v1:treatment","decomposing_explore_m4_android:treatment","android_niobe_parsing_improvement:custom_map","android_prefetch_p1_categories_v6:next_visible"]}},"severity":"error","severityReason":{"type":"userCallbackSetSeverity"},"unhandledOverridden":false,"unhandled":false,"exceptions":[{"errorClass":"java.lang.RuntimeException","message":"Error getting token","type":"android","stacktrace":[{"method":"w10.a.1","file":"FcmManager.kt","lineNumber":145},{method":"com.airbnb.android.lib.pushnotifications.PushNotificationManager.1","file":"PushNotificationManager.kt","lineNumber":46,"inProject":true},{method":"com.airbnb.android.base.initialization.a.invokeSuspend","file":"AppLaunchInitializersDispatcher.kt","lineNumber":44,"inProject":true},{method":"kotlin.co
```

```
routines.jvm.internal.a.resumeWith", "file": "ContinuationImpl.kt", "lineNumber":
6}, {"method": "kotlinx.coroutines.DispatchedTask.run", "file": "DispatchedTask.kt",
"lineNumber": 105}, {"method": "java.util.concurrent.ThreadPoolExecutor.runWorker",
"file": "ThreadPoolExecutor.java", "lineNumber": 1137}, {"method": "java.util.c
oncurrent.ThreadPoolExecutor$Worker.run", "file": "ThreadPoolExecutor.java", "lin
eNumber": 637}, {"method": "java.lang.Thread.run", "file": "Thread.java", "lineNumbe
r": 1012}]]}, {"errorClass": "java.util.concurrent.ExecutionException", "message": "
java.io.IOException: java.util.concurrent.ExecutionException: java.io.IOExcept
ion: FIS_AUTH_ERROR", "type": "android", "stacktrace": [{"method": "j54.l.1", "file"
: "com.google.android.gms:play-services-tasks@@18.0.1", "lineNumber": 32}, {"metho
d": "j54.l.1", "file": "com.google.android.gms:play-services-tasks@@18.0.1", "line
Number": 38}, {"method": "w10.a.1", "file": "FcmManager.kt", "lineNumber": 30}, {"meth
od": "com.airbnb.android.lib.pushnotifications.PushNotificationManager.1", "file
": "PushNotificationManager.kt", "lineNumber": 46, "inProject": true}, {"method": "co
m.airbnb.android.base.initialization.a.invokeSuspend", "file": "AppLaunchInitial
izersDispatcher.kt", "lineNumber": 44, "inProject": true}, {"method": "kotlin.corout
ines.jvm.internal.a.resumeWith", "file": "
```

(truncated after 4096 bytes)