Kochava Android SDK Release Notes/Version Summary

Below you will find the complete documentation of all changes made between versions of the Kochava SDK. Kochava will provide email communication of SDK releases which are urgent in nature and/or include new, meaningful functionality. For all other updates, the below change-log will notify customers of updates.

SDK Version – 20170303
- Modify data points collected for identity link.

SDK Version – 20170216
- Updated decoder to better handle improperly encoded install referrer.

SDK Version – 20170127
- Added support for the Amazon Fire advertising ID.
- Added additional standard event parameters, including parameters for sending Google Play receipts.

SDK Version – 20170106
- Removed deprecated constructors containing currency parameters.
- Improved handling of threading concurrency.
- Improved memory and cpu usage when sending large volumes of post install events.
- Added additional data points to post install and event payloads.

SDK Version – 20161122
- Reduced usage of SQLite cursor allocation, lowering likelihood of low memory condition errors.
- Guarded against possible malicious intent on referral capture of Google Referrer Data.

SDK Version – 20160914
- Added new method for sending post-install events using standardized keys and value types.

SDK Version - 20160902
- Add network connection type, display brightness and device orientation to collected data on initialization.

SDK Version - 20160811
- Added concurrency-safe logging for when in development.
SDK Version - 20160615
- Method added to send in-app purchase data and signature as post-install event.

SDK Version - 20160427
- Reduction in time required for initialization.
- Added respect for affinity_group, carrier name and screen size blacklisting.

SDK Version - 20160222
- ADID collection moved from asynctask to background thread.
- User-agent gathered only on first initialization and when OS version changes.

SDK Version - 20160105
- Resolved session tracking race condition when app went into background.
- Added database cursor close.

SDK Version - 20151109
- Removed Apache client from network communication and replaced with java.net network API.
- Application Context will be used even if SDK is passed a different context.
- Resolved fringe case JSON value passed where truncation could occur if value contained an equals sign.
- IMEI, MAC and ODIN no longer collected.
- Any currency type may now be passed.

SDK Version - 20150511
- Logic on which to create ODIN changed to base off Android Id (was MAC address).
- Added getKochavaDeviceId getter method to retrieve the Kochava Device Id.
- Parameter added to initializer to prevent periodic checking of event queue if application is in background.
- Hostname verifier changed to “strict” mode.

SDK Version - 20150312
- Removed data passed with initializer from debug log.
- Built with Android Studio/Gradle.

SDK Version - 20150128
- Added a single server configurable setting, which represents a delay added to the SDK which, during initialization of the first launch, is meant to pause the execution of the SDK to wait for both ADID and Google Referrer Data to be available for capture.
SDK Version - 20141023
- Updated attribution data gathering procedure.
- Added deep linking events.

SDK Version - 20140825
- SDK can be initialized with either a Context or an Activity.
- Updated Kochava Device Id generation methodology.

SDK Version - 20140714
- Event processing enhancements by respecting disabling of events in the Event Management UI. There is nothing the developer needs to do programmatically for this enhancement.

SDK Version - 20140625
- Removed purging of unsent post-install events after 12 hours. They will be kept until sent.
- Added ability to enable debug logging on library initialization.
- Added ability to limit ad tracking at the application level on library initialization.
- Ability to blacklist any device identifier.
- Session event tracking will be handled automatically using ActivityLifecycleCallbacks.
- All calls to kTracker.startSession() and kTracker.endSession() will be ignored.
- The Google Play Services SDK will need to be included in the project.
- Initialization requires Activity object.

SDK Version - 20140428
- Updated Device Id generation method to remove dependency on build attributes.

SDK Version - 20140411
- Removed Identity Link method that includes a callback.

SDK Version - 20140314
- Added support for passing Identity Link data with the initialization of the library.
- Changed type of HashMap object used with the initialization method(s) (see documentation).

SDK Version - 20140303
- Removed OpenUDID.

SDK Version - 20140227
- Fixed error in gathering Google Play Services Advertising Id logic.
SDK Version - 20140213
- Fixed erroneous endpoints.

SDK Version - 20140121
- Custom host logic fixed.

SDK Version - 20140120
- Further log suppression.

SDK Version - 20140117
- Repressed user agent method error.
- Added Google Play Services Advertising Id support.

SDK Version - 20131119
- Added additional user agent capture methods.
- Updated OpenUDID library with increased error handling.

SDK Version - 20131101
- SDK now gives the Google Play app more time to send referral data broadcasts before sending data to Kochava.

SDK Version - 20131015
- OpenUDID library will no longer write to shared preferences if user has blacklisted OpenUDID.

SDK Version - 20130827
- Updated OpenUDID library.

SDK Version - 20130808
- Changed the way we gather publisher app names.

SDK Version - 20130729
- Support for requesting and delivering attribution data to publisher, either via method call or callback.
- The data passed under the key “app_version” now uses the Android “version code” instead of “version name”, and will send “version name” under a different key/value pair so customers can choose which one they would like to display.
Additional information about client-side attribution is as follows:

Retrieving of Attribution Data:
Attribution data is stored locally as a JSON string and can be retrieved from the library by either calling a method, or receiving it through a callback as soon as it is successfully gathered by the library. The purpose of providing this feature is to allow customers to gain insight on how that user is attributed from the application itself - once reconciliation is determined by the server. Note that attribution is asynchronous and will be populated with nothing, or a JSON object that looks something like the following in the case of an organic installation, or a converted installation from a tracked Kochava campaign.

Organic Example:
{
    "matched":false,
    "time_click":1374699246,
}

Tracked Campaign Example:
{
    "matched":true,
    "time_click":1374699246,
    "time_install":1374703598,
    "network_name":"NetworkName - Android",
    "network_id":999999,
    "site_id":null,
    "creative_id":null,
    "campaign_name":"Campaign Android- Customers",
    "campaign_id":null,
    "cpi_price":0
}

If you would like to collect attribution data through a callback, you will need to do the following before calling the Kochava ‘Feature’ constructor:
**Sample Code:**

```java
...

// declare handler that will receive the attribution data, using the static
ATTRIBUTION_DATA string variable from the Feature class to retrieve the message
Handler test = new Handler()
{
    @Override
    public void handleMessage(Message msg)
    {
        String result = msg.getData().getString(Feature.ATTRIBUTION_DATA);
        // ...do something with result
        Log.i("MyLog", "Kochava Attribution Callback Data:" + result);
    }
};

// call the static method to set the attribution handler in the library
Feature.setAttributionHandler(test);
...

Alternatively, you can use the method getAttributionData to get the current
attribution data after calling the constructor.

**Sample Code:**

```java
...

kTracker.getAttributionData()
...
```

**Note that the attribution data may not be retrieved immediately after you first
initialize the library. Any attribution data will be available upon the second app
launch.**

**FULL DOCUMENTATION:**