Mobility
Spec Sheet

January 16th, 2018 – Version 2.3

Mobility Structure

The below table represents the structure of the daily file which will be shared with partners. The file contains all the information gathered by the top data providers of Cuebiq. The file will be delivered in TSV format and organized in columns.

Data fields		
Timestamp	UTC timestamp regarding the data point. Timestamp could contain a small amount of data points from the past or even in the future. This is due to Cuebiq getting the data directly from the iOS and the user base could contain hijacked devices.	Always present
Cuebiq ID	Proprietary ID uniquely identifying each device	Always present
ID Type	Device OS representation: - 0: Android - 1: iOS - Nothing: Unknown	Always present
Latitude	Decimal version of the latitude	Always present
Longitude	Decimal version of the longitude	Always present
Accuracy	Data point accuracy expressed in meters	Optional
Time zone offset	Time zone offset of the position of the device	Always present

Cuebiq reserves the ability to add new fields to the ones above. New fields will be added at the end of the existing list.

Due to removal of some columns, some lines of data can appear as duplicated; the partner can filter them and consider only one row.

Example of Mobility data shared as a TSV file:

```
1491673511      560b21703a253f5...      0       41.2431932      -80.45034       28      -14400
1491616021      80308873dc16c3d...      0       35.108084       -92.4338253     110     -18000
1491616466      c248c7321bde864...      1       40.2522495      -74.7266965     30      -14400
```

Data Sharing

Cuebiq exports Mobility data daily and will share it via an Amazon S3 bucket. A Cuebiq representative will generate a pair of Amazon AWS keys and provide access to the folder with the data.

Data is shared according to the following rules:
- Data is added to the S3 bucket daily, in .gzip format
- Files are broken into subparts in order to optimize performance
- All files are in TSV format
- Each file contains a set of data points which can have a 1 to 7-day delay
- Each file is automatically removed 30 days after its creation
- Files can be downloaded more than once within the 30-day window

Cuebiq reserves the right to monitor any activity occurring on Cuebiq owned S3 buckets. Misuse (e.g. downloading the same file multiple times, trying to access a path different from the one provided, performing actions unrelated to data download, etc...) will be notified to the user, and, in severe cases, will be sanctioned deactivating the user's account.