Sentiance – Offloads

Access Instructions and Data Model

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# Changelog

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| --- | --- | --- |
| Changes | Version | Date |
| First Version with instructions on accessing standardized offloads and an explanation of the data model. | 0.1.0 | 2017-07-03 |

# Overview

Sentiance provides standardized offloads of the analysis of sensor data for analysis and bulk ingestion by customers. These offloads are made available on AWS S3.

This document describes how to access and download those offloads, as well as the data model of their contents.

# Offload Access

## Amazon S3 Offloads

A separate prefix has been set up for you on the Sentiance Amazon S3 account under the sentiance.offloads-bucket. Analysis results arrive in this folder as the Sentiance Platform is done processing your data.

Sentiance provides you with AWS S3 credentials limited to accessing the files and folders under your prefix.

The recommended way to retrieve your offloads is through the awscli-command line tool[[1]](#footnote-1).

After installation, first configure your account (credentials sent separately):

$ aws configure

and provide your credentials when asked for:

$ AWS Access Key ID [None]: <your personal access key>

$ AWS Secret Access Key [None]: <your personal secret>

$ Default region name [None]: eu-west-1

$ Default output format [None]: <leave empty>

Then you can use the tool to list and download the data, the example assumes a prefix named *sample*, adjust this to your own provided prefix to access your offloads:

$ aws s3 ls s3://sentiance.offloads/sample/

PRE 07\_01\_2017\_16\_01\_21\_463/

$ aws s3 ls s3://sentiance.offloads/sample/07\_01\_2017\_16\_01\_21\_463/

PRE 00000000000000000000000a/

$ aws s3 ls s3://sentiance.offloads/sample/07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/

PRE attributes.long.00000000000000000000000a.csv/

PRE attributes.wide.00000000000000000000000a.csv/

PRE moments.00000000000000000000000a.csv/

PRE segments.00000000000000000000000a.csv/

PRE stationaries.00000000000000000000000a.csv/

PRE transports.00000000000000000000000a.csv/

$ aws s3 ls s3://sentiance.offloads/sample/07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/ transports.00000000000000000000000a.csv/

2017-07-02 12:30:40 33658649 part-00000.gz

$ aws s3 sync s3://sentiance.offloads/sample/ ./sample

## download: s3://sentiance.offloads/ sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/segments.00000000000000000000000a.csv/part-00000.gz to sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/segments.00000000000000000000000a.csv/part-00000.gz

## download: s3://sentiance.offloads/ sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/stationaries.00000000000000000000000a.csv/part-00000.gz to sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/stationaries.00000000000000000000000a.csv/part-00000.gz

## download: s3://sentiance.offloads/ sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/attributes.wide.00000000000000000000000a.csv/part-00000.gz to sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/attributes.wide.00000000000000000000000a.csv/part-00000.gz

## download: s3://sentiance.offloads/ sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/attributes.long.00000000000000000000000a.csv/part-00000.gz to sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/attributes.long.00000000000000000000000a.csv/part-00000.gz

## download: s3://sentiance.offloads/ sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/transports.00000000000000000000000a.csv/part-00000.gz to sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/transports.00000000000000000000000a.csv/part-00000.gz

## download: s3://sentiance.offloads/ sample /07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/moments.00000000000000000000000a.csv/part-00000.gz to sample/07\_01\_2017\_16\_01\_21\_463/00000000000000000000000a/moments.00000000000000000000000a.csv/part-00000.gz

# Data Model

Each offload consists of single folder containing a multi-part, gzipped csv files. Multi-part offloads will start showing up once the userbase being tracked reaches into the thousands of users.

Every csv file uses semicolon ‘;’ as a field separator and every part contains the header with column names.

The complete data model for every file is described in the spreadsheet named ‘Sentiance - Offloads - Data Model - 0.1.0 - 20170704.xlsx’ accompanying this document.

## Stationaries

Stationaries represent the period of time a user was detected to be at a specific venue.

Every row represents a single Stationary of a user.

Multi-part file inside the *stationaries.<appid>.csv* folder.

## Transports

Transports represent the period of time a user moved from one venue to another. Multiple transports might occur without intermittent stationaries, e.g. a user first *walking* to his car, then *driving* to a restaurant.

Every row represents a single Transport of a user.

Multi-part file inside the *transports.<appid>.csv* folder.

## Moments

Moments represent a period of time when the user was within a certain context, e.g. commuting, in shopping routine.

Every row represents a single Moment of a user.

Multi-part file inside the *moments.<appid>.csv* folder.

## Attributes - Wide

Attributes represent a particular long-term characteristic of the user, e.g. long commuter, dog walker, brand loyalty.

The *wide* attributes offloads contains a separate row per user with every column containing another attribute for that user.

Multi-part file inside the *attributes.wide.<appid>.csv* folder.

## Attributes - Long

The *long* attributes offloads contains a separate row per attribute per user.

Multi-part file inside the *attributes.long.<appid>.csv* folder.

## Segments

Segments represent a particular long-term characteristic of the user, e.g. long commuter, dog walker, brand loyalty.

Every row represents a single Segment of a user.

Multi-part file inside the *segments.<appid>.csv* folder.

1. https://aws.amazon.com/cli/ [↑](#footnote-ref-1)