BonoloV5 data retrieval explanation

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1 Introduction

This document explains the procedures for retrieving data recorded by the BonoloV5 devices to a personal computer after running a project. For a comprehensive guide of the tasks mentioned, see the “BonoloV5 Commands USER Guide” and “Bonolo V5 Software Guide” documents.

2 Manual data download

The user will need to first run a project for their target period of time to collect air quality samples. Recorded data will be stored in physical memory inside the device. To retrieve this data manually a terminal application(e.g. YAT) is used as explained below. There is no need to enable WIFI or LTE under project settings if data will only be retrieved this way without any need for the online dashboard. Keeping these off will reduces battery consumption.

2.1 Terminal application(e.g. YAT) to text viewer (NotePad) copy/paste

After connecting the device to the terminal application use the command “DATA” to retrieve data for the most recent project or “DATA_ALL” for all data including previous projects. The measurements will be printed out in CSV format.

This printed data is then copied manually to a text file.

2.2 Terminal application(e.g. YAT) to text file direct writing

For this procedure the data printed by the terminal application is written directly to a text file, eliminating the need to copy and paste the information. This can be useful for large data. The settings for the filename and directory in YAT are found under: “Log → Log Settings”.

3 Online dashboard data download

For access to the data through Circor Solutions online dashboard two avenues exist.

3.1 Manual upload then dashboard export

The data collection project can be run with the device offline(No WIFI or LTE connection), then the data is uploaded to the dashboard at the end of that project through a WIFI access point.

The command “SD2WF” is used to upload all data that has not yet been uploaded to the dashboard. The user or team can then view or export this data from the dashboard.

3.2 Project runtime uploads then dashboard export

For this procedure the data is uploaded automatically during project runtime at intervals set by the user through WIFI or LTE. The user will have to setup and enable the communication medium(WIFI or LTE) under project settings for automatic uploads to initiate. As in the case above, the data can then be viewed or exported from the dashboard.