Usage

Note: Refer to IoT SOP for more specific configuration.
https://vflowtechcom.sharepoint.com/:w:/r/sites/bms-ems-iot/_layouts/15/Doc.aspx?sourcedoc=%7BA0852E90-5DB6-4EDC-99E7-B450062D7958%7D&file=SOP_IoT.docx&action=default&mobileredirect=true

Requirements

1. Python (if you do not have)
   https://www.python.org/downloads/

2. Install packages with CLI at root folder
   `pip install -r requirements.txt`
   or
   `pip3 install -r requirements.txt`

Choosing Platform

The script is compatible with both MADs and VFT.

By default, status queried is for VFT platform. To query from MADs:

1. Launch `unit_status.py` in any preferred editor.

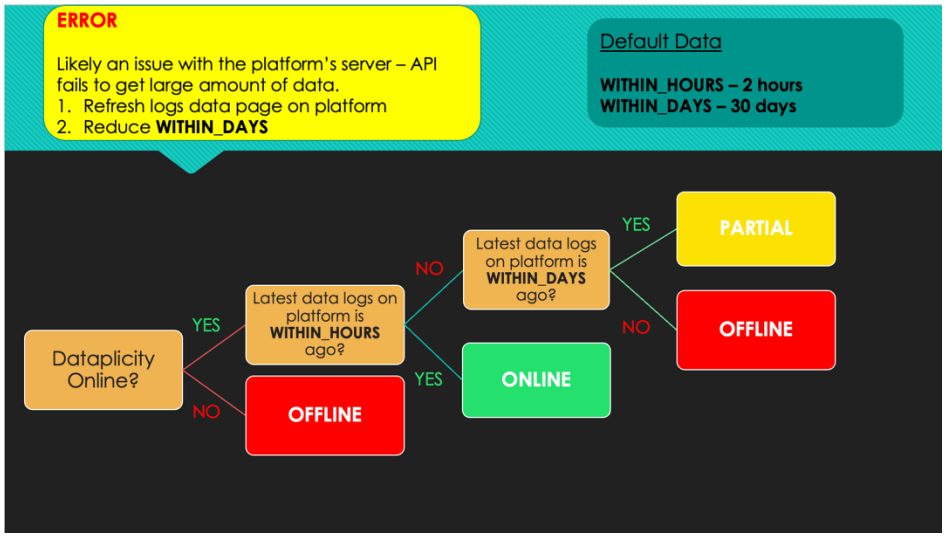
2. Scroll to the bottom and look for this section

```
if __name__ == "__main__":
    generate_report()
    sendEmail()
```

3. Add the following Boolean flag

```
if __name__ == "__main__":
    generate_report(True)
    sendEmail()
```

Definition of Unit Statuses



Procedure

1. Open CLI of choice
2. At the root folder, do
   `python unit_status.py`
   or
   `python3 unit_status.py`
   a. Alternatively, run `unit_status.py` on Python's IDLE
3. If successful, unit_status.docx will be generated accordingly:

Unit Status

Unit Name	On MADs Platform	On Dataplicity	Remarks
5kW - Unit 1 Backup 1	offline	offline	Customer side offline
5kW - Unit 3	partial	online	Testing and maintenance - VSUN
5kW - Unit 4	offline	offline	No SIM
5kW - Unit 5	offline	offline	No SIM
10kW - Unit 6	offline	offline	
10kW - Unit1_Shinoda	partial	online	Data lagging
Cleantech_10_100kWh	offline	offline	Maintenance
5kW - Unit 12	offline	offline	Yet to deliver
10kW - Unit 7	offline	offline	Maintenance
5kW - Unit 9	offline	offline	

Unit Status

Unit Name	On VFT Platform	On Dataplicity	Remarks
5kW - Unit 1 Backup 2	offline	offline	Testing and maintenance - VSUN
5kW - Unit 3	online	online	
5kW - Unit 4	offline	offline	No SIM
5kW - Unit 5	offline	offline	No SIM
10kW - Unit 6	offline	offline	Yet to deploy
10kW - Unit1_Shinoda	offline	online	No logs data in the last 30 days
Cleantech_10_100kWh	offline	offline	Maintenance
100kW - Unit 10	offline	offline	
5kW - Unit 0	offline	offline	

Adding More Units

1. Open the configuration file (excel sheet) for the desired platform.

2. Ensure the new units have been registered on Dataplicity and synced with the platform.

3. Fill in the new unit's details in **units_sheet** of the configuration file

WARNING:
Unit's name on Dataplicity should **correspond** with unit's name on the platform!

Adding Email Recipients

1. Open the configuration file (excel sheet) for the desired platform.

2. In "Recipients" cell under **email_sheet**, add valid email addresses of new recipients

Customization of Data

1. Open the configuration file (excel sheet) for the desired platform.
2. Make the necessary changes for the correct cell
    a. **WITHIN_HOURS** and **WITHIN_DAYS** can be configured here

Further Configuration

Refer to IoT SOP for any of the following:

1. Adding units on Dataplicity and VFT platform
2. Configuring email fields
    a. Changing sender email address and generating new API key
    b. Changing email server
    c. Device compatibility with email API key