

PROBLEM SOLVING

IMPORT SMART MOBILE DATA

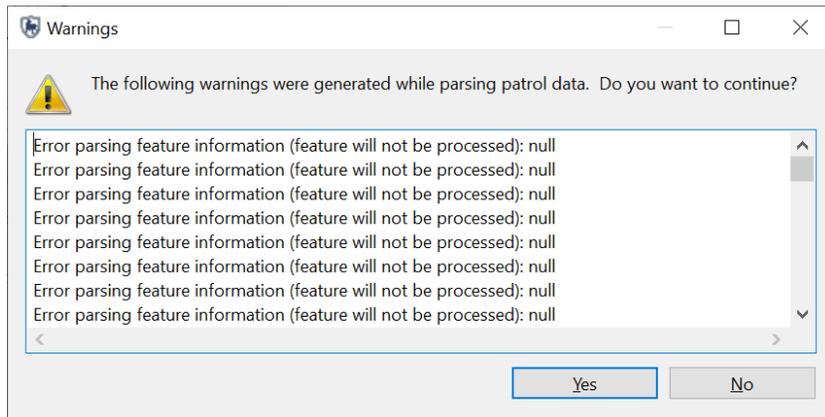
ERROR PARSING FEATURE INFORMATION (FEATURE WILL NOT BE PROCESSED): NULL

LILI ARIES SADIKIN

SMART Conservation Tool Imp

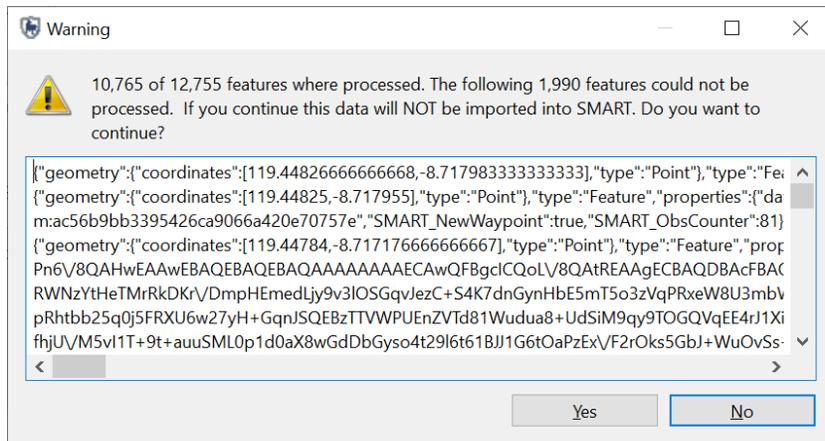
Problem:

For SMART Mobile users, they often experience problems when importing data, one of which is **Error parsing feature information (feature will not be processed): null** .



Figures 1. Warning there is an error parsing feature information.

If we ignore the error warning (by clicking **Yes**), then there will be some (or maybe a lot of data that will not be processed by SMART Desktop.



Figures 2. Warning there are features that cannot be processed by SMART Desktop.

As shown above, SMART Desktop can only process 10,765 features out of a total of 12,755 features, many of which are field observation data which is important data, some are also track points from patrol tracks.

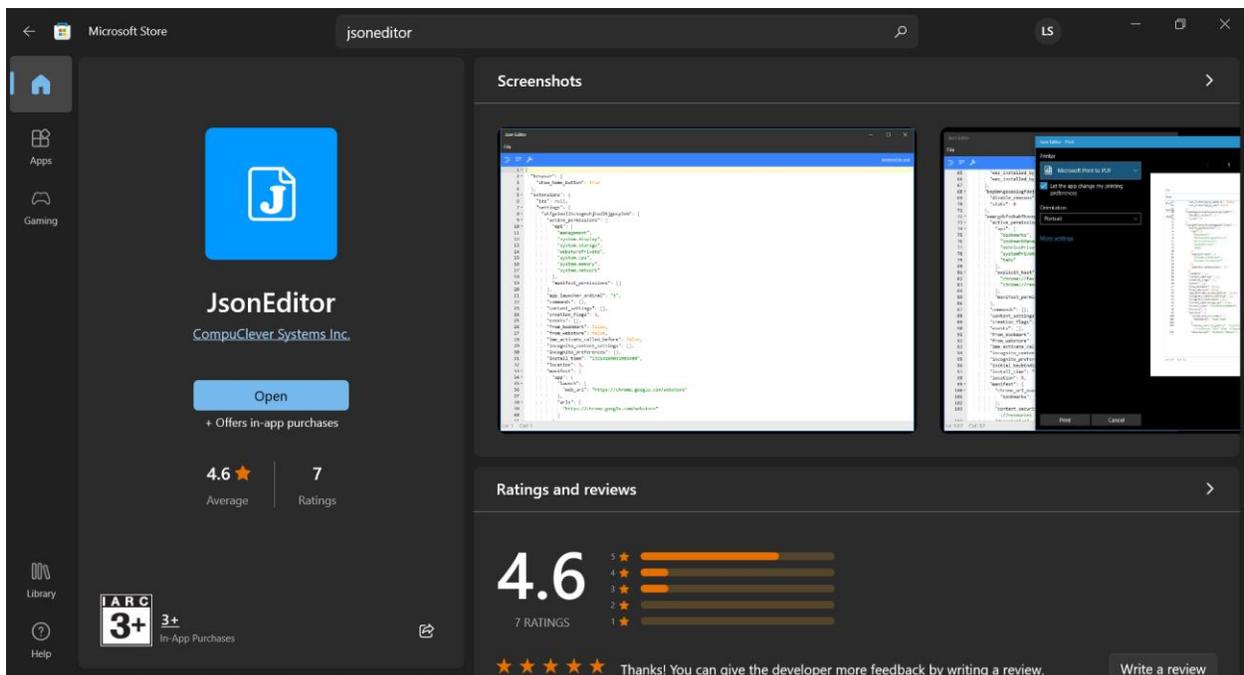
This is due to a bug in SMART Mobile (which hopes will fix soon). The bug resulted in a missing script line in the JSON data file of SMART Mobile.

The missing line is **"SMART_PatrolID": "xx"**, so to fix it we need to add the missing line.

Tools needed:

To solve this problem, we need some applications, including:

1. Notepad or other text processing,
2. The free version of the JsonEditor application can be downloaded for free at the Microsoft store.



Figures 3. JsonEditor app on Microsoft Store.

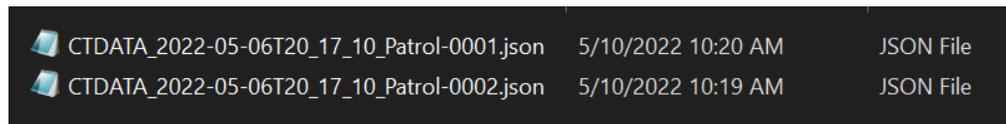
Solution:

To avoid damaging the JSON data file from SMART Mobile, it is best to backup the JSON data file first. The data file is in the smartphone in the **SMART Data folder**.

The name of the JSON data file inside the SMART Data folder is usually:

CTDATA_ yyyy-mm-dd T hh_mm_ss _Patrol-000 x .JSON

If there is a lot of data, usually the JSON file will be *split* automatically by SMART Mobile (usually *splitting* is done if the JSON file size is more than 65MB). The name of the JSON data file will be the same for the *splitting results*, the only difference is that the numbering on **Patrol-000x** will change as much as the file chunk.

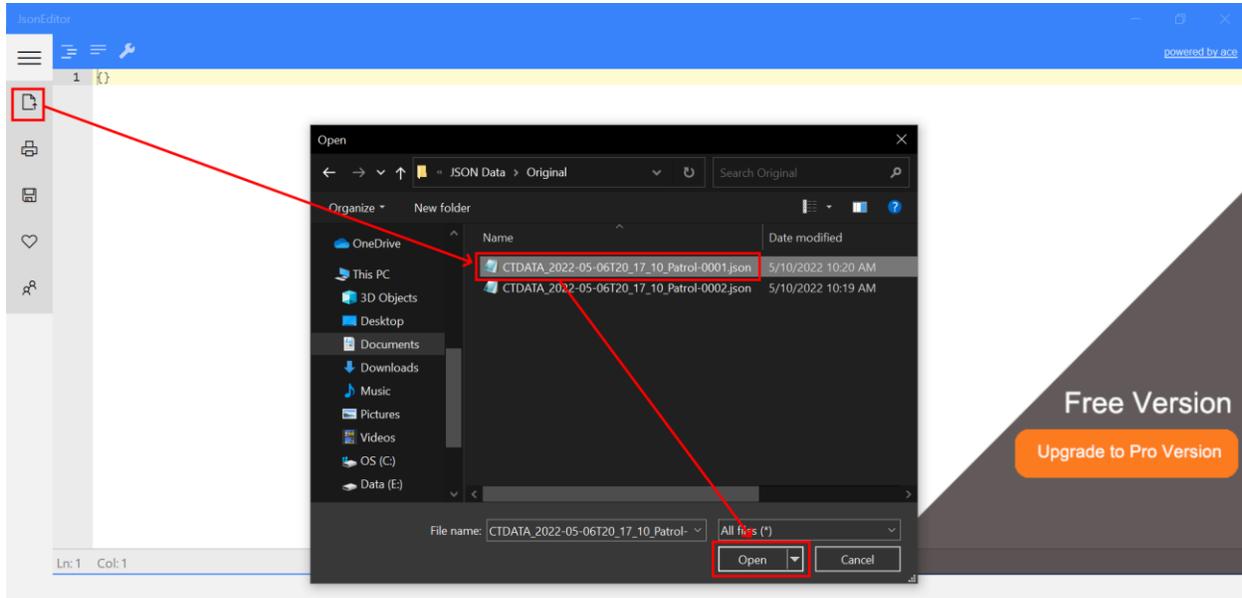


CTDATA_2022-05-06T20_17_10_Patrol-0001.json	5/10/2022 10:20 AM	JSON File
CTDATA_2022-05-06T20_17_10_Patrol-0002.json	5/10/2022 10:19 AM	JSON File

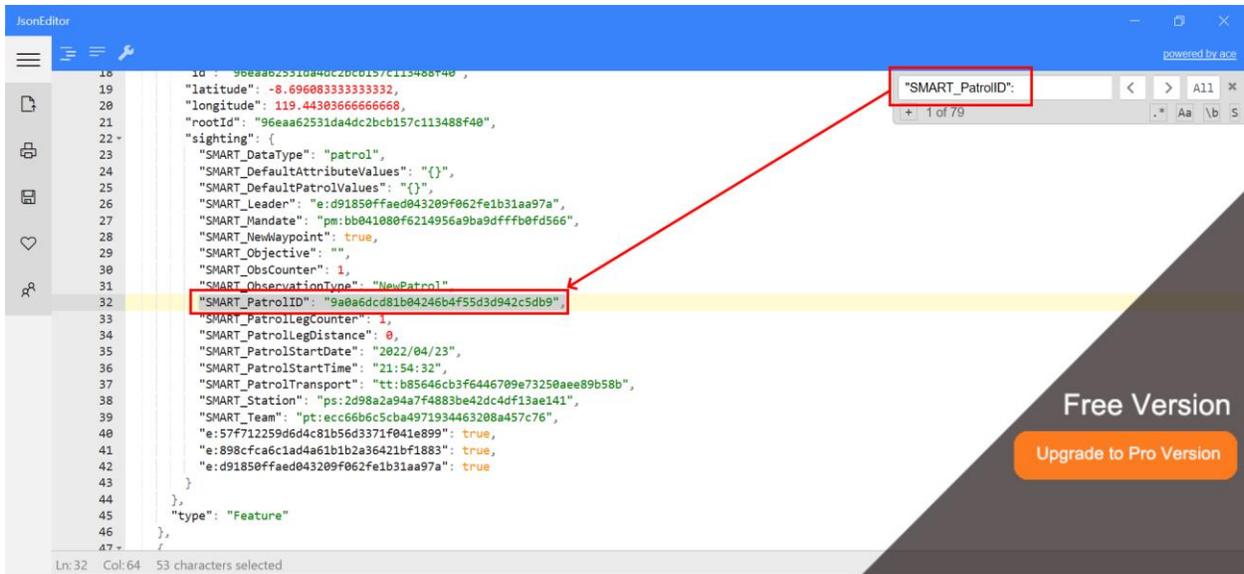
Figures 4. The JSON data file is divided into 2 files, the only difference being the suffix numbers are Patrol-0001 and Patrol-0002, while the front will be the same.

Find missing lines and make notes in Notepad

1. Open the **JsonEditor** application, then open the JSON file that have parsing error (the speed of opening a JSON file with the free version of JsonEditor will depend on the specifications of the computer used).



2. Then simultaneously press **Ctrl** and **F** to activate the **Find** feature. Then in the **Find** window, type **"SMART_PatrolID"**:
3. JsonEditor will look for the line that has the text.



4. Then copy the "SMART_PatrolID" line: "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx", and paste it in the Notepad.
5. Then also copy the line above it "SMART_ObservationType": "NewPatrol", and paste it in Notepad. Then also make notes like the image below, namely:
 "SMART_PatrolID": "9a0a6dcd81b04246b4f55d3d942c5db9",
 "SMART_ObservationType": "NewPatrol",
 "SMART_ObservationType": "Observation",
 "SMART_ObservationType": "ChangePatrol",
 "SMART_ObservationType": "PausePatrol",
 "SMART_ObservationType": "StopPatrol",



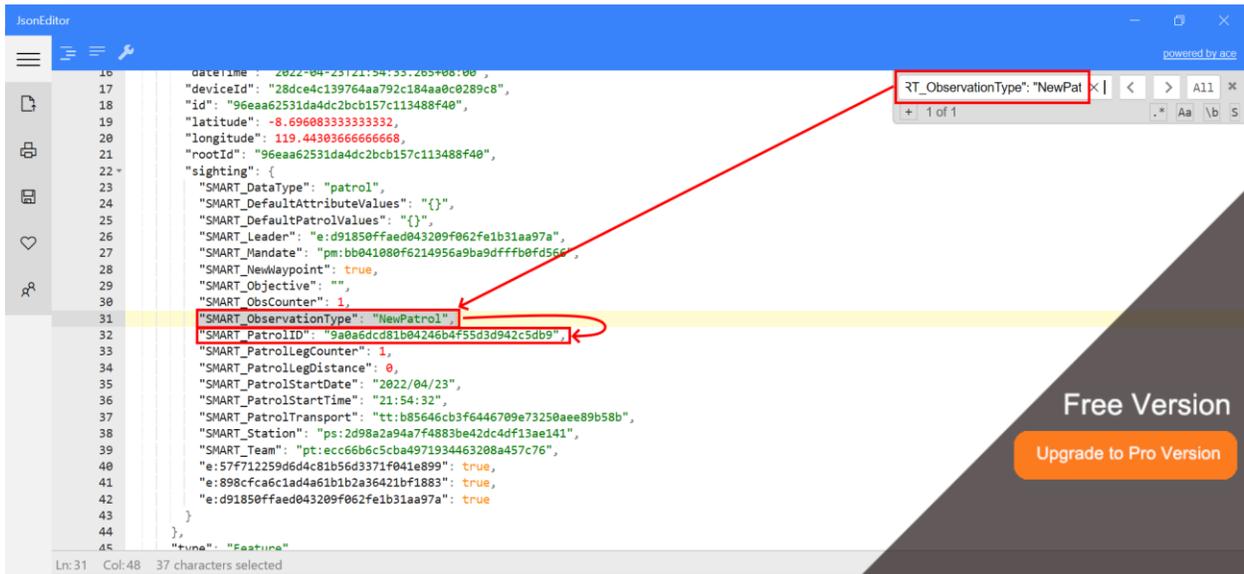
Adding missing line

In this process, we are still using 2 applications, Notepad and JsonEditor to add missing lines.

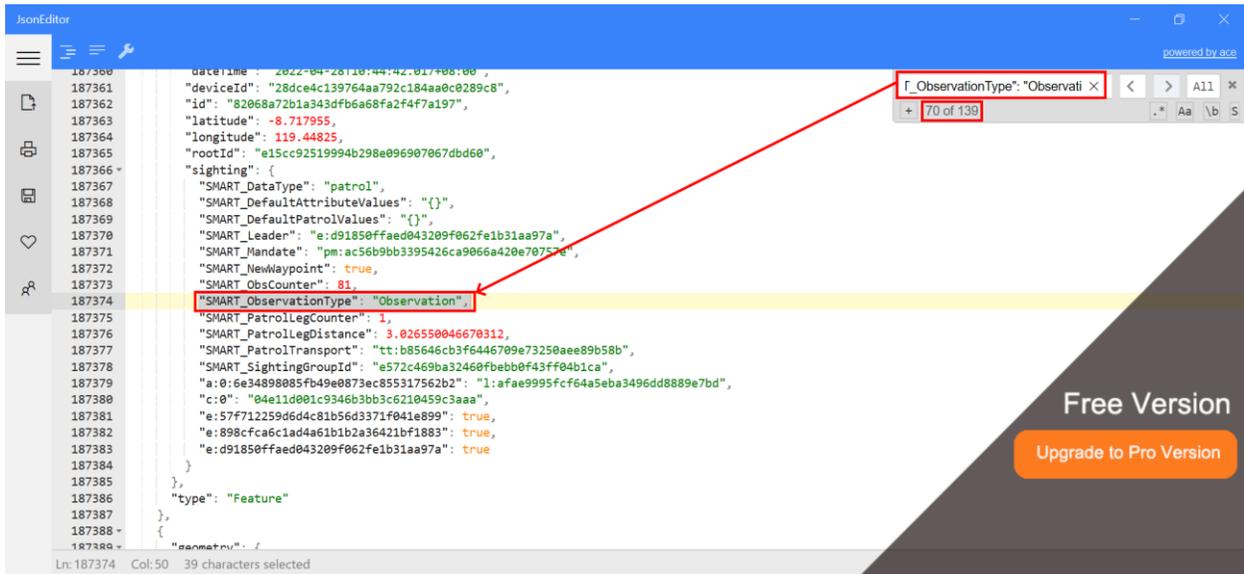
1. Still in the JsonEditor Application, in the Find window, type "SMART_ObservationType": "NewPatrol", then JsonEditor will look for the appropriate text.
2. Look at the one line below the "SMART_ObservationType": "NewPatrol" line, is there a "SMART_PatrolID" line: "xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx", ?

If it already exists, then there is no need to add the line, but if it doesn't exist then it is necessary to add the missing line by copying from notes in Notepad to JsonEditor.

Note: In the **Find window in JsonEditor**, the number of rows that have been found will be listed, for example **1 of 1**, meaning that there is only 1 matching row, if **1 of 64** means that there are 64 rows.

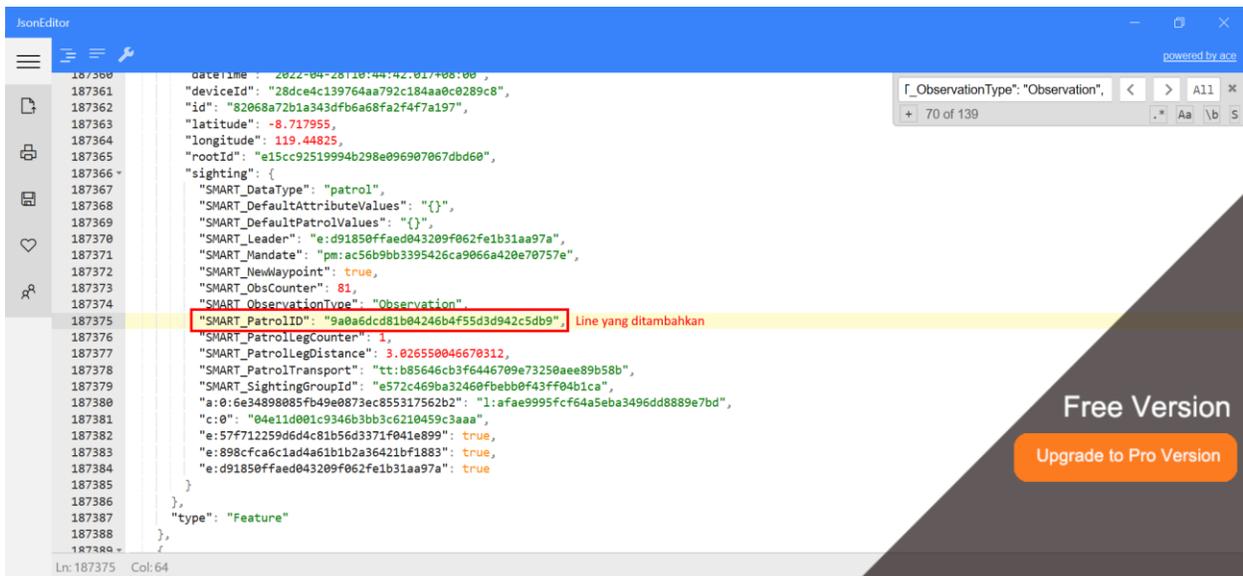
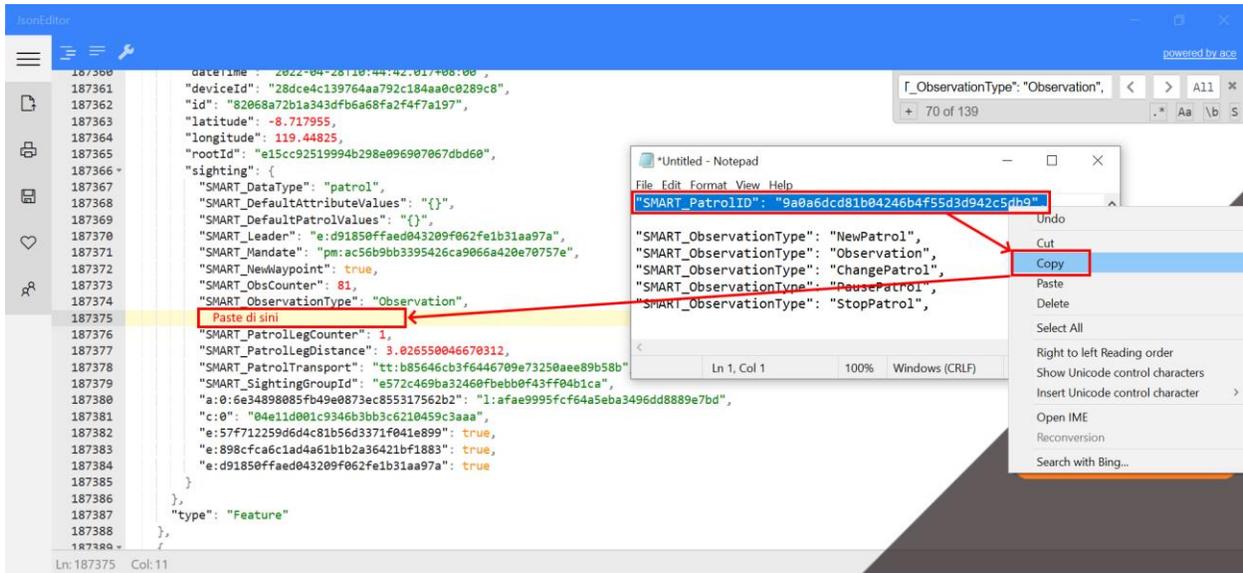


3. Then try to find the line **"SMART_ObservationType": "Observation"**, pay attention to one line below it, whether there is a line **"SMART_PatrolID": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx"**, and if it doesn't exist, add the line by copying and pasting the notes in Notepad.



In the picture above, it can be seen that there is a missing line, namely the **"SMART_PatrolID"** line: **"xxxxxxxxxxxxxxxxxxxxxxxxxxxx"**,

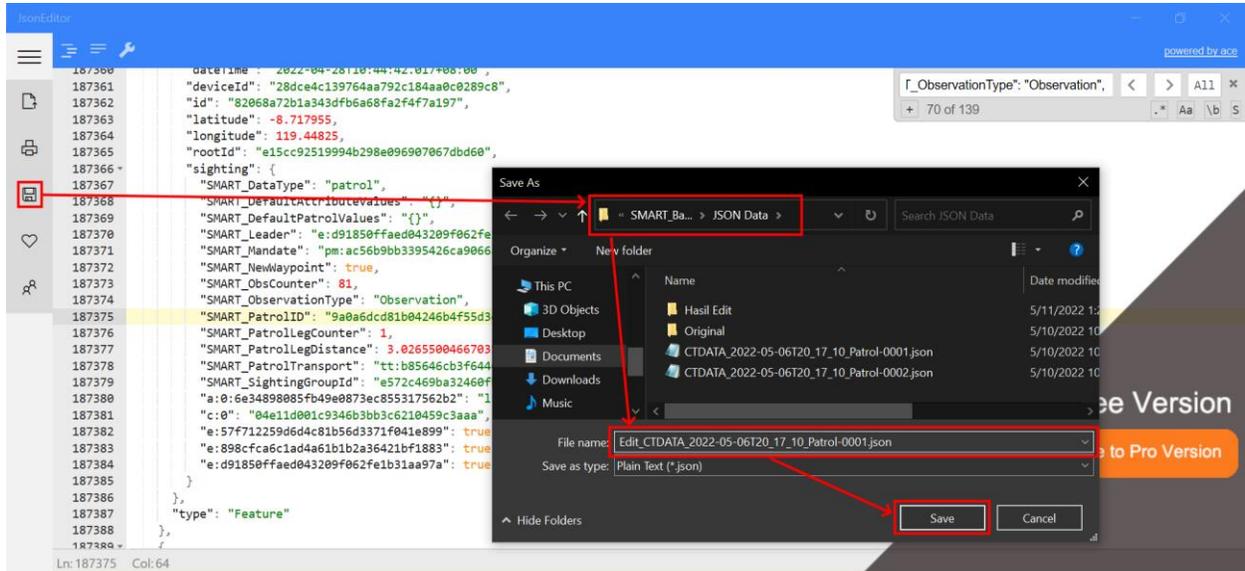
- Copy the line `"SMART_PatrolID": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx"`, from the note in Notepad, then add a line under `"SMART_ObservationType": "Observation"`, by pressing enter at the end of the line in the JsonEditor Application.



- Continue editing the JSON data file until it is confirmed that all have the `"SMART_PatrolID": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx"`, Also make sure it's on line `"SMART_ObservationType": "NewPatrol"`, `"SMART_ObservationType": "ChangePatrol"`, `"SMART_ObservationType": "PausePatrol"`, `"SMART_ObservationType": "StopPatrol"`, It already has a `"SMART_PatrolID": "xxxxxxxxxxxxxxxxxxxxxxxxxxxx"` line, below it. If the patrol carried out does not change the type of transport or split patrol, then the line `"SMART_ObservationType": "ChangePatrol"`, will not be heard, and need not be added.

If there is no Pause Patrol, the lines **"SMART_ObservationType": "PausePatrol"**, and **"SMART_ObservationType": "ResumePatrol"**, will not exist, and do not need to be added.

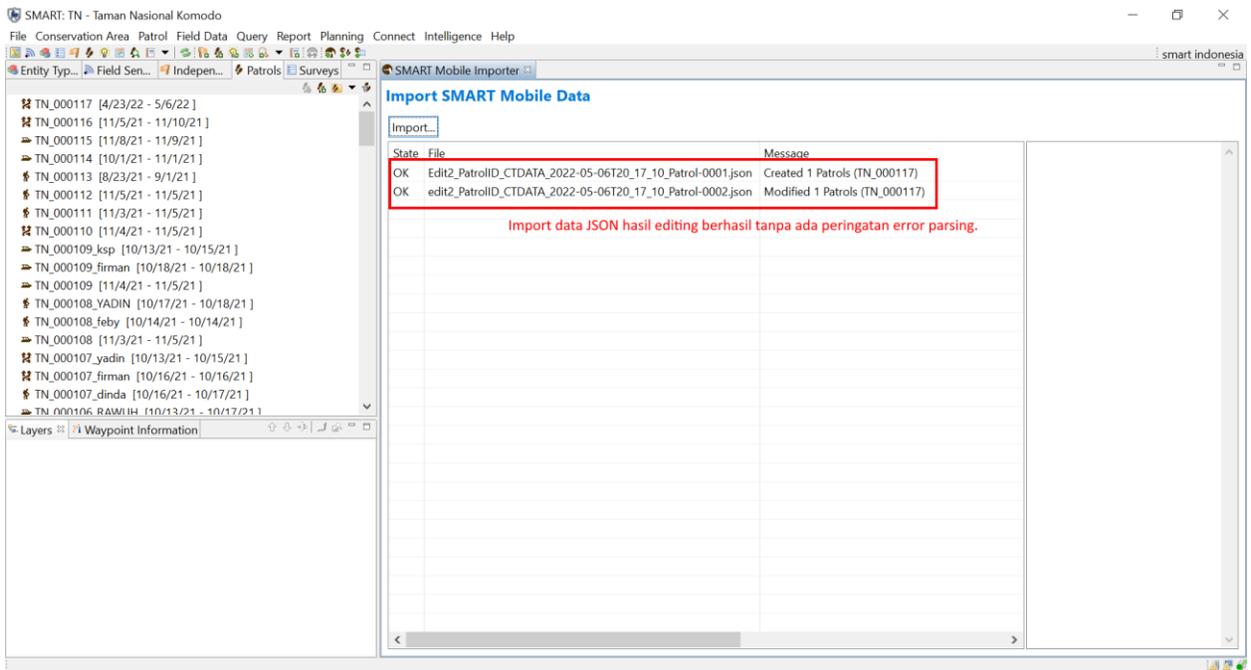
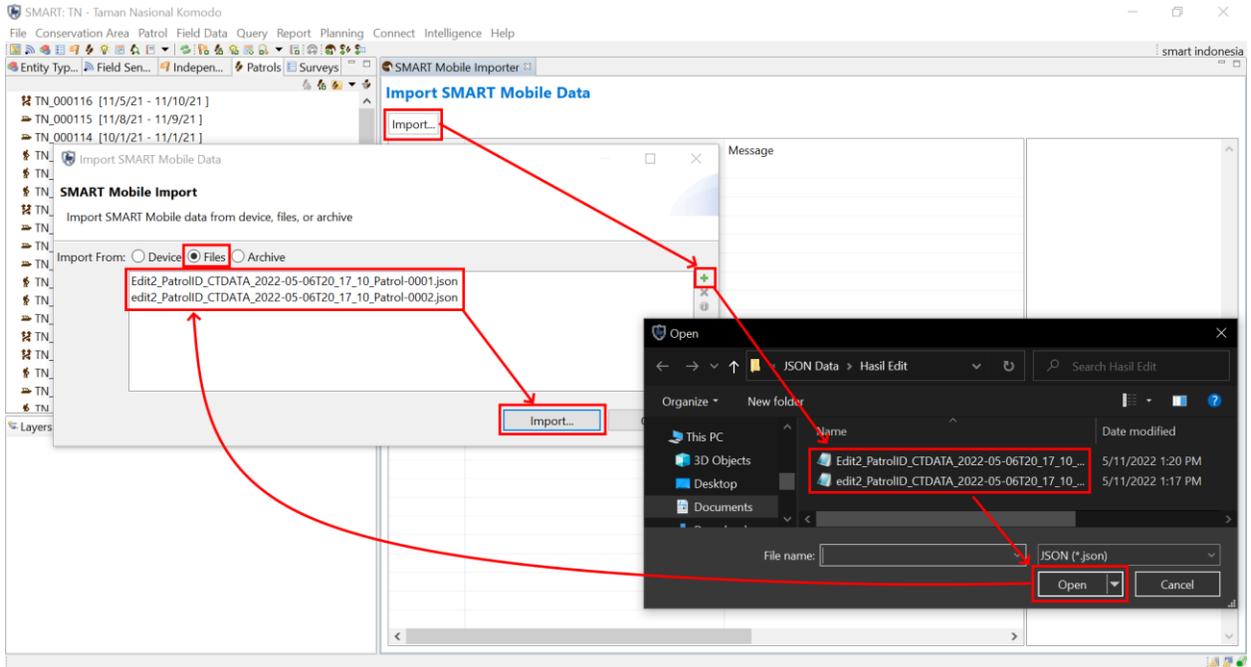
- When the editing is complete, then we need to save the file, we recommend changing the name slightly by adding "edit" in front of it.



- If the JSON data file is more than 1 (as a result of *splitting* by SMART Mobile) then edits must be made to all splitted files *using* the same method.

Import the edited JSON file to SMART Desktop

- Do the SMART Mobile data import as usual, only using the JSON file that has been edited.
- If during import, the Parsing Error warning still appears as before, it means that there is still a missing line, so it must be added manually as above.



SMART: TN - Taman Nasional Komodo

File Conservation Area Patrol Field Data Query Report Planning Connect Intelligence Help

SMART Mobile Importer Patrol TN_000117

TN_000117

Patrol Information

Patrol Type: Mixed
 Armed?:
 Team: UPT
 Station: Resort Loh Wau
 Members: ★ [Pilot] Benyamin Panus [195000077]
 ★ Emanuel Jedho [195000116]
 ★ [Leader] Tebursio Da Costa [195000039]

Patrol ID: TN_000117
 Objective:
 Comment:

Patrol Data

Start Date: April 23, 2022 End Date: May 6, 2022

Leg	Day	Has Data	Start Time	End Time	Distance	Total Patr...	Active Pat...	Transport	Mandate	Leader	Pilot
1	Apr 23, 2...	Yes	9:54:32 PM	11:59:59 ...	0.015822...	2h 5m	-1h 0m	Jalan Kaki	Rolling	Tebursio ...	
1	Apr 24, 2...	Yes	12:00:00 ...	2:41:25 PM	13.600012	14h 41m	0h 1m	Jalan Kaki	Rolling	Tebursio ...	
2	Apr 24, 2...	Yes	2:41:25 PM	11:59:59 ...	1.4884981	9h 19m	1h 42m	Jalan Kaki	Pendataa...	Tebursio ...	
2	Apr 25, 2...	Yes	12:00:00 ...	11:59:59 ...	4.8619237	24h 0m	16h 25m	Jalan Kaki	Pendataa...	Tebursio ...	
2	Apr 26, 2...	Yes	12:00:00 ...	7:18:15 AM	0.156357...	7h 18m	7h 18m	Jalan Kaki	Pendataa...	Tebursio ...	
3	Apr 26, 2...	Yes	7:18:15 AM	11:59:59 ...	4.8445907	16h 42m	2h 22m	Jalan Kaki	Pendataa...	Tebursio ...	
3	Apr 27, 2...	No	12:00:00 ...	11:59:59 ...	0	24h 0m	-0h 0m	Jalan Kaki	Pendataa...	Tebursio ...	
3	Apr 28, 2...	Yes	12:00:00 ...	7:28:44 AM	13.597476	7h 29m	0h 2m	Jalan Kaki	Pendataa...	Tebursio ...	
4	Apr 28, 2...	Yes	7:28:44 AM	9:44:35 AM	10.266299	2h 16m	2h 16m	Speed Boat	Patroli Per...	Tebursio ...	Benyamin...
5	Apr 28, 2...	Yes	9:44:35 AM	10:08:32 ...	0.8690018	0h 24m	0h 24m	Jalan Kaki	Patroli Da...	Tebursio ...	
6	Apr 28, 2...	Yes	10:08:32 ...	11:59:59 ...	4.162929	13h 51m	0h 18m	Speed Boat	Patroli Per...	Tebursio ...	Benyamin...
6	Apr 29, 2...	No	12:00:00 ...	11:59:59 ...	0	24h 0m	-0h 0m	Speed Boat	Patroli Per...	Tebursio ...	Benyamin...

Update Start & End Times Total Distance: 173.71834km Total Patrol Time: 309h 22m Total Active Time: 39h 5m

Summary Apr 23, 2022 | Apr 24, 2022 | Apr 25, 2022 | Apr 26, 2022 | Apr 27, 2022 | Apr 28, 2022 | Apr 29, 2022 | Apr 30, 2022 | May 1, 2022 | May 2, 2022 | May 3, 2022

Layers: Waypoint Information
 North Arrow
 Graticule
 Map Scale
 sentinel
 Patrol Sectors
 Conservation Area Boundary
 ZONASI TN KOMODO 2020 FIX
 Administrative Areas
 Management Sectors
 Buffered Management Area
 Laut