ShowAnafiLog



Dank an alle Tester. Guten Flug!

Programm auf Wunsch aus dem Parrot Pilots Drone Forum

h-elsner 10/2024

Übersicht

"ShowAnafiLog" ist ein Programm zum Anzeigen der JSON Logdateien und Black-Box-Daten von Parrot's "Anafi" in besser lesbarem Format, das zeigen von Diagrammen ausgewählter Datenspalten und Konvertierung in KML oder GPS Flugpfaden. Außerdem ist ein Export der Daten als CSV-Datei möglich.

Installation

Keine Installation. Dies ist eine portable Anwendung, man braucht nur Schreibzugriff auf das Verzeichnis, wo sich das Programm befindet, da es dort in einer XML-Datei die Einstellungen speichert.

Benutzung

Kopiere die flight logs (*.json) oder BlackBox Logs vom Mobiltelefon in einen Ordner auf dem PC. BlackBox Logs müssen erst ausgepackt und in *.JSON umbenannt werden. Öffne dieses Verzeichnis zum Beispiel per Drag&Drop auf das Programm. Eine Liste der JSON Logdateien wird in der Übersicht angelegt. Und die letzte Datei in der Liste wird zur Anzeige ausgewählt.

Man kann dann jede Datei auswählen und die detaillierten Daten in den verschiedenen Reitern anzeigen.

Übersicht



Log data

Cursor shows which row in the data table is selected. You can move forward by mouse wheel.

Hold the mouse pointer over a cell to get more information (a cell related hint).

Right mouse button opens a context menu to open coordinates in Google Maps or Open Street Map.

Selected cell means also selected data set.

Line number of selected data set = position of the red cursor in the second chart above.

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Meta data from JSON log file

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		Details	Value			Statistics	Min/max values	Occurred first time	
		Product name	Anafi			Ceiling	5.520124m	22:52:42.003	
		Product id	2324: Anafi 4K-HDR			Distance	6.926618m	22:44:05.004	
		Version	1.2			Top speed	1.455777m/s	22:44:24.403	
		Serial number	PI040416AA8F02103	i 2018 Max ba Min ba		Max battery level	46%	22:44:05.004	
		Date of manufacture	No 021037 from Jur			Min battery level	9%	22:52:50.872	
		Hardware version	HW_03			/			
		Software version	1.0.1			FDR log director			
		Total run time	00:08:59			46676000526	CD0CD72115574		
		Crash	0			4667CD89520	SFB8CB73TTFF7A50T		
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Metadata from FDR log files

Log files in the FDR folder contains more detailed data compared to JSON log files but it is an undocumented binary format. Thus, the files keep their secrets. But some of the meta data at the beginning of the files are readable such as battery serial number or firmware versions.





Internes

Siehe auch: <u>https://developer.parrot.com/docs/olympe/arsdkng_ardrone3_piloting.html</u>

flying_state	Meaning	Remarks, internal naming
0	Landed	Landed
1	Taking Off	Taking Off
2	Hovering	Hovering
3	Flying	Flying
4	Landing	Landing
5	Emergency	Emergency
6	User take off	Waiting for user action to take off
7	Motor ramping	Motor ramping
8	Emergency landing	Drone autopilot has detected defective sensor(s)

alert_state	Meaning	Remarks, internal naming
0	None	none
1	Normal flight	user
2	Anafi shut down	cut out, if something hit the propeller
3	Battery level crucial	critical battery
4	Battery level low	low battery
5	Flight angle exceeded	too much angle (>70°)

Output format CSV Pilot log book:

product_gps_position_error	Meaning	Remarks, internal naming
0	No error	Seems to be always 0
1	Not in outdoor mode	Possibly not used
2	GPS not fixed	Possibly not used
3	Compass not calibrated	Possibly not used

flip_type	Meaning	Remarks, internal naming
0	None	Seems to be always 0
1	Front	Not used
2	Back	Not used
3	Right	Not used
4	Left	Not used

Battery level	Color	Number of sats	Color
>50%	green	>10	green
50% to 25 %	orange	11 to 5	orange
<25%	red	<5	red

Index	Header
0	Serial number
1	Date
2	From
3	То
4	Duration
5	Ceiling
6	Distance
7	Route
8	Top speed
9	Max battery level
10	Min battery level
11	Location
12	GPS fix at start

Index	Header	Description	Unit	Metric/Imperial	Conversion
0	Date/Time	Computed from Date/Time in Meta data plus Time since boot	date/time		
1	time	Time since boot in ms	ms		
2	battery_level	Battery charge level	%		
3	controller_gps_latitude	Controller latitude	lat		
4	controller_gps_longitude	Controller longitude	lon		
5	flying_state	Flying mode	enum		
6	alert_state	Alert state	enum		
7	wifi_signal	WiFi signal strength	dBm		
8	product_gps_available	Anafi GPS lock	bool		
9	product_gps_longitude	Anafi Longitude	lon		
10	product_gps_latitude	Anafi Latitude	lat		
11	product_gps_position_error	Anafi GPS error	enum		
12	product_gps_sv_number	Number of sats	#		
13	speed_vx	Foreward speed	m/s	m/s – ft/s	
14	speed_vy	Sideways speed	m/s	m/s – ft/s	
15	speed_vz	Vertical speed	m/s	m/s – ft/s	
16	angle_phi	Attitude – Roll Angle	rad		rad - ° +/-180
17	angle_theta	Attitude – Pitch Angle	rad		rad - ° +/-180
18	angle_psi	Attitude – Compass Heading	rad		rad - ° 0360
19	altitude	Altitude relative to take off	m ft	m – ft	
20	flip_type	Flip type	enum		
21	speed	True air speed	m/s	m/s – ft/s	m/s – km/h / ft/s – mph
22	DIST	Distance Anafi to RC, computed from coordinates	m	m – ft	m – km / ft – mi

Disclaimer

This software is freeware. You can use this software royalty-free for private and commercial purposes.

Use this application on your own risk.

There is no guaranty for correctness and/or completeness of the results of the evaluation of flight log data or interpretation of the values in the flight logs.

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