# A few technical comments on the CREDO project







Source: Astropolis forum @Pawel 103



Source: Astropolis forum @Tayson



409

owarzystwo Aiłośników

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Source: Astropolis forum @Marcinos



#### MARATHON

The table shows the results for each team taking part in the Particle Hunters competition. List of teams sorted alphabetically - you can change the sorting by clicking on the name of a column.

ATTENTION! The number of points in the table below does not take into account bonus points - they will be in a separate table.

Information on actions and their iconography

- ${\cal P}\,$  See list of users with statistics (in competition) belonging to the selected team
- See team activity chart (not yet available)
- 🕝 Go to the team's subpage at api.credo.science

No.	TEAM	DETECTIONS	TIME	POINTS	USERS	ACTIONS
7	PTMA Warszawa	106343	8559.22	3837	11	✓ ✓
6	PTMA Lublin	23640	6790.12	1830	7	يم مر ج
4	KMO Międzylesie	18753	9452.77	2265	34	,≈ ⊮ ⊙
9	SPINCZ 2	2984	2009.35	460	5	يم مر ج

#### Marek Więckowski



**Representative of the PTMA in the Project CREDO** 



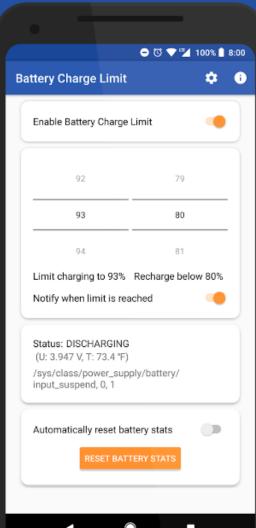


**Representative of the PTMA in the Project CREDO** 



 multichannel good quality USB charger
 good quality USB power cord
 cooling pad for laptop
 mobile phone with working wi-fi
 new original (or good quality replacements) Li-ION battery









### **Battery Charge Limit**

 application on Google Play shop
 manages battery charging and limits the charge level (40%-80%)
 need root procedure on Android (for SuperUser privilege)
 complicated configuration
 full manual on XDA Developers Forum

	CAMCUNC
	SAMSUNG
	af 100% 12:45
	12:45 pm 14°c
	12:45 PM 14°C
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Source: Samsung.	com
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Samsung Galaxy Ace 4 (SM-G357FZ - most popular)

cheap (35 EURO) good sensivity for muons (200 detection per day) cheap original battery Android 4.4.4 (KitKat)

PEMALublin

Device id	All traces	Bad margin	Hot pixel	Artefact	Too Bright	<mark>(</mark> all) Detect▼	(all) % Detect	(all) Hour Detect	Time work [H]	Temp[°C]	Hour Traces	Device Model	System Version
25951	58701	0	0	0	1	58700	100	10.35	5674.164	33.34	10.35	GT-18190	16-4.1.2
24431	53026	0	0	12	0	53014	99.98	6.14	8635.772	28.27	6.14	SM-G389F	23-6.0.1
22796	47455	0	0	0	90	47365	99.81	4.85	9761.126	31.87	4.86	GT-18190	16-4.1.2
26341	47227	0	0	0	0	47227	100	8.09	5837.428	29.03	8.09	SM-G389F	23-6.0.1
26663	39700	0	0	0	0	39700	100	7.81	5082.322	30.01	7.81	SM-G389F	23-6.0.1
16896	39253	0	0	0	1	39252	100	5.61	7001.794	-1	5.61	GT-S7580	17-4.2.2
24019	38728	0	0	0	2	38726	99.99	8.81	4398.017	30.34	8.81	SM-G357FZ	19-4.4.4
19441	38212	0	0	0	0	38212	100	4.18	9147.584	28.47	4.18	SM-G357FZ	19-4.4.4
24010	34592	0	0	0	0	34592	100	8.03	4309.741	31.14	8.03	SM-G357FZ	19-4.4.4
20003	34023	0	0	0	0	34023	100	5.04	6750.239	29.36	5.04	SM-G357FZ	19-4.4.4
26326	32646	0	0	0	0	32646	100	9.48	3442.111	33.56	9.48	GT-I8190N	16-4.1.2
20002	30884	0	0	0	2	30882	99.99	4.92	6275.986	28.82	4.92	SM-G357FZ	19-4.4.4
24464	30671	0	0	0	0	30671	100	8.28	3704.328	27.9	8.28	SM-G357FZ	19-4.4.4
24471	30483	0	0	0	0	30483	100	7.5	4065.705	29.25	7.5	SM-G357FZ	19-4.4.4

# Samsung Galaxy s3 miniSamsung Galaxy Xcover 3Samsung Galaxy Trend PlusSamsung Galaxy Ace 4



Name	Internal codename <sup>[11]</sup>	Version number(s)	Initial stable release date	Latest security patch date <sup>[16]</sup>	Latest <u>Google Play</u> <u>Services</u> version <sup>[17][1</sup> <sup>8]</sup> (release date)	
		4.0.3 - 4.0.4	December 16, 2011			
		4.1 - 4.1.2	July 9, 2012			
Android Jelly Bean	Jelly Bean	4.2 - 4.2.2	November 13, 2012		21.33.56 (September 2021)	
		4.3 - 4.3.1	July 24, 2013			
Android KitKat	Kau Lima Dia	4.4 - 4.4.4	October 31, 2013 October 2017		23.30.13 (August	
Android KitKat	Key Lime Pie	4.4W - 4.4W.2	June 25, 2014	?	2023)	
Android Lollipop	Lemon Meringue	5.0 - 5.0.2	November 4, 2014 <sup>[20]</sup>	November 2017		
	Pie	5.1 - 5.1.1	March 2, 2015[21]	March 2018		
<u>Android</u> <u>Marshmallow</u>	Macadamia Nut Cookie	6.0 - 6.0.1	October 2, 2015 <sup>[22]</sup>	August 2018		
An desid Novemb	New York	7.0	August 22, 2016	August 2019		
Android Nougat	Cheesecake	7.1 - 7.1.2	October 4, 2016	October 2019		
Android Oreo	Oatmeal Cookie	8.0	August 21, 2017	January 2021	23.43.13 (November 2023)	
Android Oreo	Oatmeal Cookie	8.1	December 5, 2017	October 2021		
Android Pie	Pistachio Ice Cream <sup>[23]</sup>	9	August 6, 2018	January 2022		
Android 10	Quince Tart <sup>[24]</sup>	10	September 3, 2019	February 2023		
Android 11	Red Velvet Cake <sup>[24]</sup>	11	September 8, 2020			
Android 12	Snow Cone	12	October 4, 2021			
Android 12L	Snow Cone v2	12.1 <sup>[a]</sup>	March 7, 2022	January 2024		
Android 13	Tiramisu	13	August 15, 2022			
Android 14	Upside Down Cake <sup>[27]</sup>	14	October 4, 2023			
Android 15	Vanilla Ice Cream <sup>[28]</sup>	15	Q3 2024	_	-	

no update 4.4.4 of Google Play Services from 08.2023

**CREDO.detector** app not working and not install via Google Play (need new library)

very old android security patch – this is dangerous for every user services on google account on mobile phone

in newest Android >= 9.0
CREDO.detector app not
working (or working very bad)
- because phone go suspend
(power management )



### User expectations:

- We need new CREDO.detector app for old Android (4.0-7.0) mobile phone – app not need Google Play Services and libraray (app shop)
- We need CREDO.detector app 2.0 for Android >= 9.0 (for testing new mobile phone)
- 3. New DIY kit for advanced users Raspberry PI with 4 cheap internet/WEB HD camera (old CREDO project on GitHub)



## Thank you.

https://mawmarecki.blogspot.com/

