

**Table 1: Sample analysis of Google Play malware (A-G).**[illegible]

Table 2: Sample analysis of Google Play malware (H-Z).

ID	Malware family	Year	Event conditions															Check conditions								Hiding tech.					Payloads										Code properties										
			System							User								Serv.	Device	Env.	App.	Icon manipulation	Rich benign func.	Info. blocking	Screen locking	Screen locking	Info. stealing	Ad abuse	Privilege escalation	Premium charges	Crypto. mining	Clipboard hijacking	Port forwarding	Ransom	Unknown	Location		Language													
			Boot status	Device status	Package changes	Network status	Developer defined	SMS delivery	Battery status	Service bind	Call status	Application launch	Sensitive input	Button click	Install app	Clipboard text	Grant permission																			Scheduling	Internet	SMS	Sensors	Hardware specs	Software specs	Network	Location	Time	Data format	Permissions	Downloaded (remote)	Hidden (local)	Bytecode	Native	Web
59	Haken	2020	✓		✓	✓											✓	✓			✓	✓		✓					✓	✓							✓	✓			✓										
60	HiddadAJN	2020	✓															✓				✓	✓															✓	✓			✓									
61	HiddadBZ	2017										✓			✓							✓	✓																✓	✓			✓								
62	HiddenAd	2018	✓									✓			✓			✓																																	
63	HiddenAdGLCA	2019		✓														✓				✓	✓																												
64	HiddenAdHRXH	2019		✓																																															
65	HiddenAdHRXJA	2020	✓	✓			✓			✓								✓							✓	✓																									
66	HiddenAdOS	2020					✓	✓				✓						✓					✓	✓																											
67	HideenAd	2019	✓	✓								✓						✓																																	
68	HummingBad	2017	✓	✓	✓													✓											✓	✓						☆								✓	✓						
69	Inazigram	2017										✓	☆	☆																																					
70	IndexY	2019							✓																																										
71	InstaDetector	2016										✓	✓	✓									✓																												
72	InstaZuma	2017										✓	☆	☆																																					
73	Joker	2020						✓						✓				✓					✓																												
74	JokerV2	2020						✓				✓		✓																																					
75	LightsOut	2018						✓				✓		✓																																					
76	MalBus	2019										✓	☆	☆																																					
77	MilkyDoor	2017	✓	✓		✓												✓																																	
78	MobstSpy	2019					✓					✓	✓	✓				✓				✓				✓	✓																								
79	Necron	2019										✓						✓																																	
80	PletorD	2017	✓									✓						✓																																	
81	PornClicker	2016		✓		✓												✓																																	
82	ProjectSpyHRX	2020						✓				✓		✓				✓																																	
83	PSWAndroidOSMyVK	2017										✓	✓	✓				✓																																	
84	RedDawn	2018						✓										✓																																	
85	Reputation1	2019	✓	✓								✓						✓																																	
86	Reputation1	2018	✓		✓							✓	☆	☆				✓																																	
87	Reputation2	2018	✓	✓	✓		✓											✓																																	
88	SideWinder	2020										✓		✓				✓																																	
89	SimBad	2019					✓					✓		✓	✓	✓		✓																																	
90	Smesh	2016										✓		✓				✓																																	
91	SMSAndroidOSWesp	2017						✓				✓	✓	✓				✓																																	
92	SockBot	2017	✓															✓																																	
93	SocksbotA	2016	✓	✓								✓																																							
94	Solid	2017	✓		✓							✓						✓																																	
95	Sonyvpay	2018						✓	✓																																										
96	SpyAgntX	2017										✓						✓																																	
97	SpyBankerAlF	2018										✓	✓	✓																																					
98	SpyBankerAJZ	2018						✓				✓	✓	✓			✓																																		
99	SpyBankerHU	2017	✓	✓	✓			✓				☆	☆					✓																																	
100	SpyBankerPV	2017	✓	✓								✓						✓																																	
101	Tekya	2020	✓	✓														✓																																	
102	TekyaHRX	2020	✓																																																
103	ToastAmigo	2017						✓										☆																																	
104	TrojanClicker	2018																✓																																	
105	TrojanDropperAgentCIQ	2018										✓						✓																																	
106	TrojanDropperAgentGY	2016	✓									✓	☆	☆				✓																																	
107	TrojanPornClicker	2016				✓								✓				✓																																	
108	Vilny	2018	✓									✓						✓																																	
109	ZtorgA	2017																✓																																	
Total Families			40	22	16	17	15	8	9	5	1	77	22	39	7	2	9	45	70	1	5	13	37	30	5	26	5	21	31	66	2	3	2	2	2	✓	✓	15	✓	9	5	2	2	2	13	94	53	21	101	9	25
Total Families Percentage			37	20	15	16	14	7	8	5	1	71	20	36	6	2	8	41	64	1	6	17	48	28	5	24	6	19	40	86	2																				