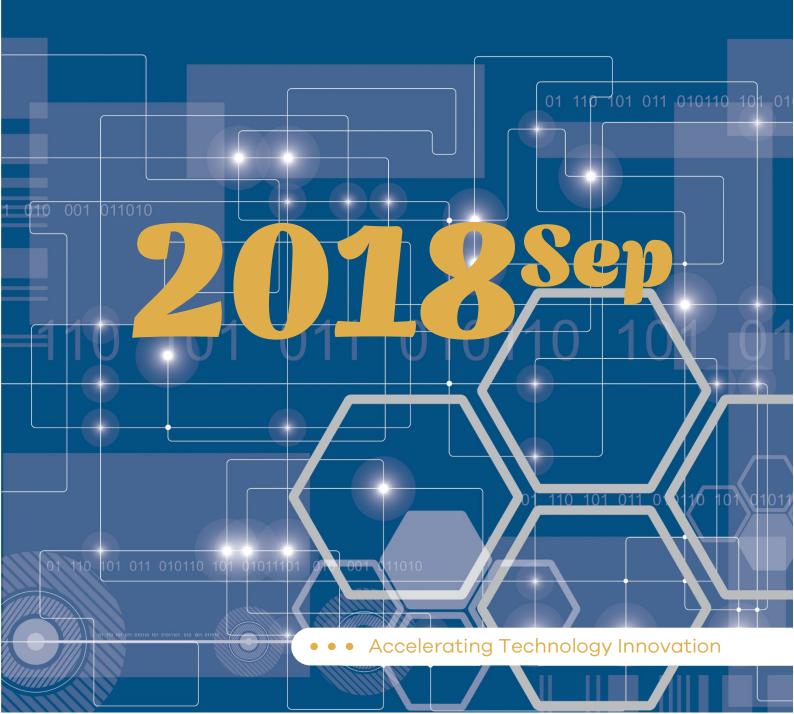
01 110 101 011 0



Android Malware Detection Test 手机安全软件病毒检测率测试





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Chap.1 Background

Android is a mobile operating system developed by Google. It is based on a modified version of the Linux kernel and other open source software, and is designed primarily for touchscreen mobile devices such as smartphones and tablets. In addition, Google has further developed Android TV for televisions, Android Auto for cars, and Wear OS for wrist watches, each with a specialized user interface. Variants of Android are also used on game consoles, digital cameras, PCs and other electronics.

Android's smartphone share will hover with around 85% throughout the forecast. Volumes are expected to grow at a five-year compound annual growth rate (CAGR) of 1.7% with shipments approaching 1.36 billion in 2022. Android average selling prices (ASPs) are estimated to grow by 9.6% in 2018 to US\$258, up from US\$235 in 2017. IDC expects this upward trajectory to continue through the forecast, but at a softened rate from 2019 and beyond. Overall this is a positive sign that consumers are seeing the benefits of moving to a slightly more premium device than they likely previously owned.

Android security software can protect you away from the following malware activities (all are actual cases):

- 1. Send messages to "premium service" SMS numbers that cost extra money.
- 2. Send your personal information to unknown parties.
- 3. Turn your phone into a part of a botnet so others can execute commands remotely for nefarious purposes, such as spam, DDOS attack, and more.
- 4. Non-authorized persons may monitor your phone calls and text messages.
- 5. Open you to blackmail, if something embarrassing can be found and sent elsewhere.
- 6. Trick you into entering financial information, such as account number, birth date, and more.
- 7. Even stuff on your PC if you connect your PC to your smartphone.

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Chap.2 Test Process

Several android mobility devices will be prepared and backup images are created then.

Detailed process is as follows:

- 1. 1010 malware samples and bulks of clean android applications are prepared and delivered to the extended SD card or internal storage.
- 2. Install a security product on the device.
- 3. Update the security product and perform a full scan against the malware set and clean applications. Malware detection rate and false positive status will be recorded. If full scan function is not provided, then perform one by one installation.
- 4. Restore the backup image and repeat the three steps above.



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Chap.3 Tested Software

Vendor	Software	Version	
AegisLab	AegisLab Antivirus Free	3.0.7	
Antiy	AVL Pro	2.2.2	
Avira	Avira Antivirus Security Free	5.4.1 build No. 4356	
Baidu	Baidu Mobile Security	V9.14.0	
ESET	ESET Mobile Security Free	4.1.35.0-0	
IKARUS	IKARUS mobile.security Free	1.7.116	
INetCop	OnVaccine	1.0.4	
Kaspersky Lab	Kaspersky Internet Security For Android Free	11.18.4.361	
Malwarebytes	Malwarebytes for Android	3.4.1.2	
McAfee	McAfee Mobile Security	5.0.0.1464	
Panda	Panda Mobile Security Free	3.3.6	
Quick Heal	Quick Heal Mobile Security Free	2.05.01.013	
Tencent	WeSecure	1.4.0.566	
Trend Micro	Trend Micro Mobile Security Free	9.5.2.1611	
Zemana	Zemana Mobile Security Free	1.7.3	

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Chap.4 Test Result

Vendor	Total Samples	Missed Samples	Detected Samples	Detection Rate	False Positive Counts	Total Score
Avira	1010	0	1010	100.000%	0	100.000
ESET	1010	0	1010	100.000%	0	100.000
IKARUS	1010	0	1010	100.000%	0	100.000
Kaspersky Lab	1010	0	1010	100.000%	0	100.000
Quick Heal	1010	0	1010	100.000%	0	100.000
Tencent	1010	0	1010	100.000%	0	100.000
Trend Micro	1010	0	1010	100.000%	0	100.000
INetCop	1010	5	1005	99.505%	6	98.905
McAfee	1010	16	994	98.416%	0	98.416
Antiy	1010	35	975	96.535%	1	96.435
AegisLab	1010	38	972	96.238%	0	96.238
Baidu	1010	75	935	92.574%	0	92.574
Malwarebytes	1010	93	917	90.792%	2	90.592
Panda	1010	113	897	88.812%	0	88.812
Zemana	1010	411	599	59.307%	0	59.307

Remarks: Final Score= (Detection %) *100-0.1*FP

6 different mobile security products from six renowned security vendors crashed during the original test, we have already delivered the crash log and related information to them.

Monthly Award 2018.09	Vendor		
	Avira		
	ESET		
	IKARUS		
	Kaspersky Lab		
5 Star Monthly Award 2018 September	Quick Heal		
	Tencent		
	Trend Micro		
	INetCop		
	McAfee		
4 Chan Manthly, Award 2010 Cantarabar	Antiy		
4 Star Monthly Award 2018 September	AegisLab		
2 Chan Manathly, June of 2010 Canatanahan	Baidu		
3 Star Monthly Award 2018 September	Malwarebytes		





Chap.5 Information

Jiaxing Chenxiang Information Technology Co., Ltd. (PCSL IT Consulting Institute), is an IT product test and consulting company located in Jiaixing, Zhejiang, P. R. China. As a professional tester of desktop security products and mobility security solutions, we are willing to provide references to the endpoint users for choosing security solutions and provide security vendors product improvement solutions and consulting services. Not only we test security solutions for different environment, but also, we provide test and consulting reports of other IT products, e.g. battery, mobility devices, computer power, etc.

In early 2015, we launched a brand-new service named BOOM Feeds Data Collection and Analysis Service, which provided varieties of different digital threat data like, android applications collection, PE malware collection, phishing Urls, malicious Urls, Linux threat binaries, iOS binaries, attack records, white binaries collections.





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