

2015

PCSL

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Android Malware Detection Test

手机安全软件病毒检测率测试

PCSL IT Consulting Institute

报告目录

TABLE OF CONTENTS

P1

测试背景
Background

P2

测试流程
Test Process

P3

待测软件
Tested Software

P4

测试结果
Test Result

P6

月度奖项
Monthly Award

P7

相关信息
Information

P8

权利说明
Rights Statement

P9

免责声明
Disclaimer

CHAP. 1

Background

Android is an open-source platform founded in October 2003 by Andy Rubin and backed by Google, along with major hardware and software developers (such as Intel, HTC, ARM, Motorola and Samsung) that form the Open Handset Alliance. In October 2008, HTC released the HTC Dream, the first phone to use Android. The software suite included on the phone consists of integration with Google's proprietary applications, such as Maps, Calendar, and Gmail, and a full HTML web browser.

Android continues to be the most popular mobile platform, with its share of smartphone sales climbing in every major market in Q4 2013, now accounting for 69.5% of all sales across 12 key markets versus 23.7% for number-two Apple, according to figures out today from Kantar Worldpanel, a market research subsidiary of WPP.

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.

CHAP. 2

Test Process

Several android 4.x (4.0.2/4.4.4) mobility devices will be prepared and backup images are created then.

Detailed process is as follows:

1. 2435 malware samples and bulks of clean android applications are prepared and delivered to the extended SD card.
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, after the full scan, missed samples will be installed manually. Malware detection rate and false positive status will be recorded. If full scan function is not provided, then perform manual installation.
4. Restore the backup image and repeat the three steps above.

CHAP. 3

Tested Software

Vendor	Software	Version
AegisLab	AegisLab Antivirus Free	3.0.1 build r30778
Alibaba	Ali Money Shield	1.1.10
Ariasecure	Bornaria Mobile Security	1.5.79
AVAST	avast! Mobile Security Free	4.0.7871
AVG	AVG Antivirus FREE	4.2.1 – 758128018-8914-4189
Avira	Avira Antivirus Security	3.8 build no.3280
Baidu	Baidu Mobile Security	V5.11.0
Bitdefender	Bitdefender Antivirus Free	2.19.194
BullGuard	BullGuard Mobile Security	14.0.9.43
Cheetah	CM Security	2.4.0.1046
COMODO	COMODO Mobile Security	2.7.4
Dr.Web	Dr.Web anti-virus Light	9.00.2(0)
ESET	ESET Mobile Security & Antivirus Free	3.0.1173.0-16
F-Secure	F-Secure Mobile Security	9.2.15956 FS_GP
IKARUS	IKARUS mobile.security Free	1.7.21
Kaspersky	Kaspersky Internet Security	11.5.0.590
Lenovo	Lenovo SECUREit	V6.2.0.3225
Malwarebytes	Malwarebytes Anti-Malware Mobile	V1.05.0.9000(90)
PSafe	PSafe Total	V1.9.4.91
Qihoo 360	360 Mobile Security	V1.4.6.1048
Quick Heal	Quick Heal Mobile Security	2.01.018
Sophos	Sophos Mobile Security	4.0.1433(12)
Symantec	Norton Mobile Security Free	V3.9.1.2245
Tencent	Tencent Mobile Security Manager	5.3.0 Build 2964
Trend Micro	Trend Micro Dr. Safety	2.0.1008
Webroot	Webroot SecureAnywhere Mobile	3.6.0.6652
Zoner	Zoner AntiVirus Free	1.9.1

CHAP. 4

Test Result

Software	Malware	Undetected	Detected	Detection %
Kaspersky Internet Security	2435	9	2426	99.630%
Tencent Mobile Security Manager	2435	11	2424	99.548%
Avira Antivirus Security	2435	14	2421	99.425%
ESET Mobile Security & Antivirus Free	2435	23	2412	99.055%
CM Security	2435	37	2398	98.480%
IKARUS mobile.security Free	2435	44	2391	98.193%
PSafe Total	2435	45	2390	98.152%
avast! Mobile Security Free	2435	54	2381	97.782%
BullGuard Mobile Security	2435	57	2378	97.659%
COMODO Mobile Security	2435	60	2375	97.536%
AVG Antivirus FREE	2435	66	2369	97.290%
360 Mobile Security	2435	70	2365	97.125%
Ali Money Shield	2435	82	2353	96.632%
Bornaria Mobile Security	2435	82	2353	96.632%
Quick Heal Mobile Security	2435	86	2349	96.468%
Norton Mobile Security Free	2435	97	2338	96.016%
Trend Micro Dr. Safety	2435	100	2335	95.893%
Bitdefender Antivirus Free	2435	113	2322	95.359%
Malwarebytes Anti-Malware Mobile	2435	124	2311	94.908%
F-Secure Mobile Security	2435	144	2291	94.086%
Webroot SecureAnywhere Mobile	2435	146	2289	94.004%
Dr.Web anti-virus Light	2435	159	2276	93.470%
Baidu Mobile Security	2435	167	2268	93.142%
Sophos Mobile Security	2435	172	2263	92.936%
Lenovo SECUREit	2435	208	2227	91.458%
AegisLab Antivirus Free	2435	670	1765	72.485%
Zoner AntiVirus Free	2435	1581	854	35.072%

Software	Detection %	FP	Final Score	Rank
Tencent Mobile Security Manager	99.548%	0	99.548	1
Kaspersky Internet Security	99.630%	1	99.530	2
ESET Mobile Security & Antivirus Free	99.055%	4	98.655	3
Avira Antivirus Security	99.425%	16	97.825	4
PSafe Total	98.152%	5	97.652	5
avast! Mobile Security Free	97.782%	4	97.382	6
COMODO Mobile Security	97.536%	6	96.936	7
Ali Money Shield	96.632%	1	96.532	8
360 Mobile Security	97.125%	7	96.425	9
AVG Antivirus FREE	97.290%	12	96.090	10
CM Security	98.480%	24	96.080	11
Norton Mobile Security Free	96.016%	0	96.016	12
Bornaria Mobile Security	96.632%	7	95.932	13
Trend Micro Dr. Safety	95.893%	2	95.693	14
Quick Heal Mobile Security	96.468%	8	95.668	15
BullGuard Mobile Security	97.659%	20	95.659	16
IKARUS mobile.security Free	98.193%	26	95.593	17
Malwarebytes Anti-Malware Mobile	94.908%	0	94.908	18
Bitdefender Antivirus Free	95.359%	10	94.359	19
Dr.Web anti-virus Light	93.470%	0	93.470	20
F-Secure Mobile Security	94.086%	8	93.286	21
Baidu Mobile Security	93.142%	0	93.142	22
Sophos Mobile Security	92.936%	4	92.536	23
Lenovo SECUREit	91.458%	0	91.458	24
Webroot SecureAnywhere Mobile	94.004%	27	91.304	25
AegisLab Antivirus Free	72.485%	38	68.685	26
Zoner AntiVirus Free	35.072%	0	35.072	27

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

CHAP. 5

Monthly Award

Software	Score	2015.01 Android
Tencent Mobile Security Manager	99.548	PCSL 2015.01 ★★★★★
Kaspersky Internet Security	99.530	
ESET Mobile Security & Antivirus	98.655	
Avira Antivirus Security	97.825	
PSafe Total	97.652	
avast! Mobile Security Free	97.382	
COMODO Mobile Security	96.936	
Ali Money Shield	96.532	
360 Mobile Security	96.425	
AVG Antivirus FREE	96.090	PCSL 2015.01 ★★★★★
CM Security	96.080	
Norton Mobile Security Free	96.016	
Bornaria Mobile Security	95.932	
Trend Micro Dr. Safety	95.693	
Quick Heal Mobile Security	95.668	
BullGuard Mobile Security	95.659	
IKARUS mobile.security Free	95.593	
Malwarebytes Anti-Malware Mobile	94.908	
Bitdefender Antivirus Free	94.359	
Dr.Web anti-virus Light	93.470	
F-Secure Mobile Security	93.286	PCSL 2015.01 ★★★
Baidu Mobile Security	93.142	
Sophos Mobile Security	92.536	
Lenovo SECUREit	91.458	
Webroot SecureAnywhere Mobile	91.304	
AegisLab Antivirus Free	68.685	TESTED
Zoner AntiVirus Free	35.072	

CHAP. 6

Information



Jiaxing Chenxiang Information Technology Co., Ltd., is an IT product test and consulting company located in Jiaxing, 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.

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CHAP. 7

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CHAP. 8

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