

2013

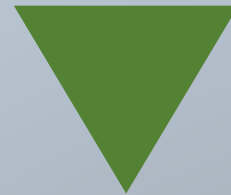
PC SECURITY LABS

Android 4.0



Malware Detection Test

False Positive
COMPARATIVES



Power Consumption

Mobile Security



DC Voltage-Stabilized Power Supply



Privacy

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1. BACKGROUND

Smartphone plays a more and more important role in people's daily life, more and more people use smartphone to seek and receive information from internet. Gartner's numbers show that during the first quarter of 2013, Android smartphones accounted for 74.4 percent of global sales. This represents more than 156 million devices and a jump of nearly 20 percent in market share year-on-year.

Malware can do the followings (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. Give others ability to 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.
8. And more...

2. TEST PROCESS

An android 4.0 mobility device will be prepared and Maynuo DC Voltage-Stabilized Power Supply will provide electricity to the device instead of battery.

Detailed process is as follows :

1. Near 2000 malware samples and bulks of clean android applications will be prepared on the SD card.
2. Install security product on the device.
3. Update the security product and perform a full scan to check 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 manual installation.
4. Repeat these steps above.

3. SOFTWARE INFORMATION

Software	Version
360 Mobile Safe	3.9.1.5068
AhnLab V3 Mobile 2.0	2.0.7.1
avast! Mobile Security	2.04993
Bitdefender Mobile Security	1.2.365
COMODO Mobile Security	2.0.278372.33
Dr.Web anti-virus Light	7.00.4
ESET Mobile Security	1.1.995.1222
F-Secure Mobile Security	8.1.12262ret-pc
Kaspersky Internet Security for Android	10.4.45
Quick Heal Mobile Security	1.01.056
Trend Micro Mobile Security	3.1.0.1089
Trustgo Mobile Security	1.3.5
Vipre Mobile Security	2.5.4.354
Zoner AntiVirus Free	1.8.0
Kingsoft Mobile Security	2.3.1.754

4. RESULT

4.1 MALWARE DETECTION RATE AND FALSE POSITIVE STATUS

Software	Malware Set	Undetected	Detection Rate	False Positive
360 Mobile Safe	1850	1	99.946%	0
Kaspersky Internet Security for Android	1850	2	99.892%	0
ESET Mobile Security	1850	5	99.730%	0
avast! Mobile Security	1850	5	99.730%	1
Trustgo Mobile Security	1850	5	99.730%	0
F-Secure Mobile Security	1850	8	99.568%	0
Quick Heal Mobile Security	1850	25	98.649%	0
Bitdefender Mobile Security	1850	25	98.649%	0
COMODO Mobile Security	1850	38	97.946%	6
Dr.Web anti-virus Light	1850	39	97.892%	0
Trend Micro Mobile Security	1850	110	94.054%	0
Kingsoft Mobile Security	1850	149	91.946%	0
AhnLab V3 Mobile2.0	1850	252	86.378%	0
Vipre Mobile Security	1850	274	85.189%	0
Zoner AntiVirus Free	1850	598	67.676%	0

4.2 FINAL SCORE

Software	Final Score	Rank
360 Mobile Safe	99.946	1
Kaspersky Internet Security for Android	99.892	2
ESET Mobile Security	99.730	3
Trustgo Mobile Security	99.730	3
avast! Mobile Security	99.630	5
F-Secure Mobile Security	99.568	6
Quick Heal Mobile Security	98.649	7
Bitdefender Mobile Security	98.649	7
Dr.Web anti-virus Light	97.892	9
COMODO Mobile Security	97.346	10
Trend Micro Mobile Security	94.054	11
Kingsoft Mobile Security	91.946	12
AhnLab V3 Mobile2.0	86.378	13
Vipre Mobile Security	85.189	14
Zoner AntiVirus Free	67.676	15

Final Score=Malware Detection Rate*100-0.1*False Positive

5. TESTER INTRODUCTION

JIAXING CHENXIANG INFORMATION TECHNOLOGY CO., LTD., is an IT product test and consulting company located in Jiaxing, Zhejiang Province, China. As a professional tester of desktop security products and also mobility security solutions, we are willing to provide references to the endpoint users for choosing security solutions. Not only we test security solutions for different environment and customers, but also we provide test and consulting reports of other IT products, e.g. battery, mobility devices, computer power, etc.

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