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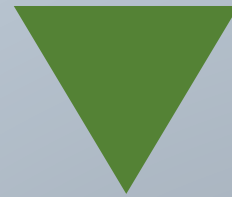
PC SECURITY LABS

Android 4.x



Malware Detection Test

False Positive
COMPARATIVES



Power Consumption

Mobile Security



DC Voltage-Stabilized Power Supply

PCSE
IT CONSULTING INSTITUTE

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. 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.
8. And more...

2. TEST PROCESS

An android 4.x (4.0.2/4.1) 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. More than 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	Vendor	Version
AegisLab Antivirus Free	AegisLab	2.1.7 build 28785
Security Manager	Anguanjia	4.8.7
avast! Mobile Security	AVAST	3.0.7650
Baidu Mobile Security	Baidu	V5.4.1
Bitdefender Antivirus Free	Bitdefender	2.7.11
COMODO Mobile Security	COMODO	2.5
Dr.Web anti-virus Light	Dr.Web	7.00.13(0)
IKARUS mobile.security	IKARUS	1.7.20
Kaspersky Internet Security for Android	Kaspersky Lab	11.3.0.623
Tencent Mobile Security Manager	Tencent	5.0.0 Build 2663
Trend Micro Mobile Security	Trend Micro	5.0.0.1225
TrustGo Mobile Security	TrustGo	1.3.15
Zoner AntiVirus Free	ZONER	1.8.3

4. RESULT

4.1 MALWARE DETECTION RATE AND FALSE POSITIVE STATUS

Software	Malware Set	Undetected	Detection Rate	FPS
Kaspersky Internet Security for Android	2435	1	99.959%	0
Bitdefender Antivirus Free	2435	13	99.466%	2
Trend Micro Mobile Security	2435	45	98.152%	2
Security Manager	2435	74	96.961%	0
Tencent Mobile Security Manager	2435	96	96.057%	0
Baidu Mobile Security	2435	97	96.016%	0
avast! Mobile Security	2435	134	94.497%	2
IKARUS mobile.security	2435	141	94.209%	3
Dr.Web anti-virus Light	2435	221	90.924%	1
COMODO Mobile Security	2435	222	90.883%	0
AegisLab Antivirus Free	2435	577	76.304%	1
TrustGo Mobile Security	2435	581	76.140%	1
Zoner AntiVirus Free	2435	722	70.349%	0

Software	Detection Rate	FPs	Score	Rank
Kaspersky Internet Security for Android	99.959%	0	99.959	1
Bitdefender Antivirus Free	99.466%	2	99.266	2
Trend Micro Mobile Security	98.152%	2	97.952	3
Security Manager	96.961%	0	96.961	4
Tencent Mobile Security Manager	96.057%	0	96.057	5
Baidu Mobile Security	96.016%	0	96.016	6
avast! Mobile Security	94.497%	2	94.297	7
IKARUS mobile.security	94.209%	3	93.909	8
COMODO Mobile Security	90.883%	0	90.883	9
Dr.Web anti-virus Light	90.924%	1	90.824	10
AegisLab Antivirus Free	76.304%	1	76.204	11
TrustGo Mobile Security	76.140%	1	76.040	12
Zoner AntiVirus Free	70.349%	0	70.349	13

4.2 MONTHLY AWARD

Vendor	Final Score	Award
Kaspersky Lab	99.959	
Bitdefender	99.266	
Trend Micro	97.952	
Anguanjia	96.961	
Tencent	96.057	
Baidu	96.016	
AVAST	94.297	
IKARUS	93.909	
COMODO	90.883	
Dr.Web	90.824	
AegisLab	76.204	
TrustGo	76.040	
ZONER	70.349	

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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