

2014

PC SECURITY LABS

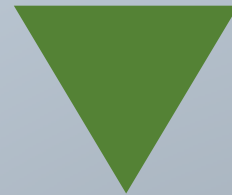
Desktop Security Products



False Positive Review

Anti-Virus

Bank Software



Windows system files

Online Games

● Financial and Securities Software

Office

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1. BACKGROUND

False positives occur when a pattern of code in the file matches the same pattern contained in a virus signature. This can occur due to a faulty signature or it can occur after improper disinfection by the same or different antivirus scanner. False positives can be more than just annoying. Repeated warnings that are erroneous cause the same effect as the boy who cried wolf. If too many false positives occur, when a legitimate warning is presented, users may disregard it. In other cases, a false positive can cause legitimate files to be deleted, causing the operating system or program to no longer function properly (By Mary Landesman). Security vendors are starting to use new technology like cloud computing, white listing to improve malware detection and also reduce the false positive level. We will collect batches of clean software to test the security products, the more clean files being detected as malware, the lower false positive control ability the single security product will have.

2. REVIEW PROCESS

The updated image of windows 8.1 x64 system will be prepared.
Security product (antivirus software) will be installed and we will run a complete update.
We will enable the network connection and also make sure that the cloud function is fully enabled. Batches of clean files will be delivered to the test machine and we will use the scanner of the security product to scan the files. Wrong detection against clean files will be recorded. Repeat the process above.

Very few false positives: 0-5 single files

Few false positives: 6-10 single files

Many false positives: 11-20 single files

Huge amount of false positives: 21 single files and above

3. SOFTWARE INFORMATION

Software	Version
360 Anti-Virus	5.0.0.4113
avast! Free Antivirus	2014.9.0.2011
Avira Free Antivirus	14.0.2.286
Baidu Antivirus	1.7.0.1166
Bitdefender Windows8 Security	16.35.0.1936
BullGuard Internet Security	14.0.276.1
Dr.Web Security Space	9.0.0.11250
ESET Smart Security	7.0.302.26
F-Secure Internet Security	1.99 build 192
K7UltimateSecurity	9.175.10842
Kaspersky Internet Security	14.0.0.4651(d)
Malwarebytes Anti-Malware	1.75.0.1300
McAfee Internet Security	12.8.903
NANO antivirus	0.28.0.57029
Norton Internet Security	21.1.0.18
Tencent PC Manager	8.9.10869.210
Trend Micro Titanium Maximum Security	7.0.1206-USOB022001.2336
VIPRE Internet Security	7.0.6.2
Windows Defender	4.3.9600.16384

4. RESULT

Software	Number of False Positives	FP Level
Tencent PC Manager	0	Very Few FPs
Trend Micro Titanium Maximum Security	1	Very Few FPs
Windows Defender	1	Very Few FPs
Baidu Antivirus	1	Very Few FPs
ESET Smart Security	2	Very Few FPs
360 Anti-Virus	4	Very Few FPs
Kaspersky Internet Security	4	Very Few FPs
Malwarebytes Anti-Malware	4	Very Few FPs
Avira Free Antivirus	6	Few FPs
avast! Free Antivirus	11	Many FPs
Bitdefender Windows8 Security	11	Many FPs
BullGuard Internet Security	14	Many FPs
F-Secure Internet Security	14	Many FPs
VIPRE Internet Security	18	Many FPs
McAfee Internet Security	20	Many FPs
Dr.Web Security Space	22	Huge Amount of FPs
NANO antivirus	26	Huge Amount of FPs
Norton Internet Security	33	Huge Amount of FPs
K7UltimateSecurity	35	Huge Amount of FPs

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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