

virus

BULLETIN

Covering the global threat landscape

VB100 CERTIFICATION REPORT APRIL 2020

VB Test Team

For more than two decades, *Virus Bulletin* has been testing anti-malware products and reporting on their performance – over that time both the threat landscape and the products themselves have evolved, but the VB100 certification scheme has remained a constant, a mark of distinction for those products that live up to expectation. The VB100 logo is the ‘stamp of approval’ conferred on products that satisfy a minimum standard of detecting malicious executables that have recently been seen in the wild, while blocking few to no legitimate programs.

This report details the VB100 certification results of 42 anti-malware products from 36 different vendors during March and April 2020.

THE VB100 SET-UP

In the VB100 test, a copy of the product to be tested is installed on two platforms: *Windows 10* and *Windows 7*. On each platform, and at three different times in the test, the product is asked to scan both the latest version of the WildList¹ and a selection of clean files taken from *Virus Bulletin*’s own set of files belonging to widely used legitimate software.

A legitimate file that is blocked at least once is considered a false positive, while a WildList file that isn’t blocked is considered a miss.

A product achieves a VB100 certification if:

- No more than 0.5% of WildList samples are missed and
- No more than 0.01% of legitimate files are blocked

¹ The WildList is an extremely well-vetted set of malware recently observed in the wild by researchers: <http://www.wildlist.org/>.

For full details, we refer to the VB100 methodology on the *Virus Bulletin* website: <https://www.virusbulletin.com/testing/vb100/vb100-methodology/vb100-methodology-ver1-1/>. This test used version 1.1 of the VB100 methodology.

DIVERSITY TEST

The malware part of the VB100 certification uses the WildList, a regularly updated list of extremely well-vetted malware samples, guaranteed to have been spotted in the wild multiple times. This makes them very suitable for a certification test like VB100.

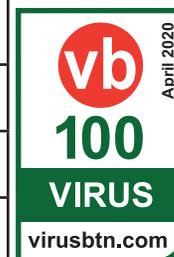
The ‘Diversity Test’ looks at products’ detection of another set of recent malware samples, to acknowledge the fact that products detect malware samples beyond a standard set of samples, and provides a measure of that detection.

PRODUCTS & RESULTS

Products were allowed to download updates during the course of the test. The version numbers listed in the results that follows refer to those at the start of the test.

Adaware Antivirus Free

Windows 7 version	12.7.1055.0
Windows 10 version	12.7.1055.0
WildList detection	99.7%
False positive rate	0.000%
Diversity Test rate	100.00%



Adaware Antivirus Pro

Windows 7 version	12.7.1055.0
Windows 10 version	12.7.1055.0
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



Avast Free Antivirus

Windows 7 version	20.1.2397
Windows 10 version	20.1.2397
WildList detection	100.0%
False positive rate	0.001%
Diversity Test rate	100.00%



Ad-Spider

Windows 7 version	2020.03.05 - 7.83962
Windows 10 version	2020.03.05 - 7.83962
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



AVG Internet Security

Windows 7 version	20.1.3112
Windows 10 version	20.1.3112
WildList detection	100.0%
False positive rate	0.001%
Diversity Test rate	100.00%



AhnLab V3 Endpoint Security

Windows 7 version	9.0.60.1
Windows 10 version	9.0.60.1
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.90%



Cynet 360

Windows 7 version	8.3.56.10
Windows 10 version	8.3.56.10
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	98.14%



Arcabit AntiVirus

Windows 7 version	2020.03.05
Windows 10 version	2020.03.11
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Emsisoft Anti-Malware

Windows 7 version	2020.3.0.10024
Windows 10 version	2020.3.0.10024
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



eScan Internet Security Suite for Windows

Windows 7 version	14.0.1400.2228
Windows 10 version	14.0.1400.2228
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



ESTsecurity ALYac

Windows 7 version	4.0.2.23116
Windows 10 version	4.0.2.23116
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	95.99%



ESET Endpoint Security

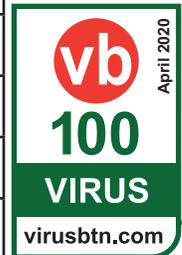
Windows 7 version	7.1.2053.0
Windows 10 version	7.1.2053.0
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Exosphere Endpoint Protection

(see notes in Appendix 2)

Windows 7 version	8.3.56.10
Windows 10 version	8.3.56.10
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	98.43%



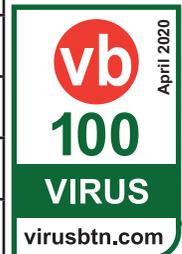
ESET Internet Security

Windows 7 version	13.0.24.0
Windows 10 version	13.0.24.0
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Faronics Anti-Virus

Windows 7 version	4.21.3102.484
Windows 10 version	4.21.3102.484
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



ESET Smart Security Premium

Windows 7 version	13.0.24.0
Windows 10 version	13.0.24.0
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



FireEye Endpoint Security

Windows 7 version	31.28.8
Windows 10 version	31.28.8
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



Fortinet FortiClient

Windows 7 version	6.2.3.0912
Windows 10 version	6.2.3.0912
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	98.53%



ITL Total Security

Windows 7 version	1.0.0.14
Windows 10 version	1.0.0.14
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	100.00%



G DATA Antivirus

Windows 7 version	25.5.5.43
Windows 10 version	25.5.5.43
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



K7 Total Security

Windows 7 version	16.0.0632
Windows 10 version	16.0.0632
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



IKARUS anti.virus

Windows 7 version	3.1.16
Windows 10 version	3.1.16
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.90%



Kaspersky Endpoint Security 11 for Windows

Windows 7 version	11.1.1.126
Windows 10 version	11.1.1.126
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Intego AV

Windows 7 version	1.0.0.13
Windows 10 version	1.0.0.13
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	99.90%



PCProtect

Windows 7 version	4.14.31
Windows 10 version	4.14.31
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



Qi-ANXIN Tianqing Endpoint Security Management System

Windows 7 version	v10.0 build: 6.6.0.4082
Windows 10 version	v10.0 build: 6.6.0.4082
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



Systweak Anti-virus

Windows 7 version	1.0.1000.9539
Windows 10 version	1.0.1000.9539
WildList detection	99.6%
False positive rate	0.000%
Diversity Test rate	100.00%



Rising Enterprise Security Management System

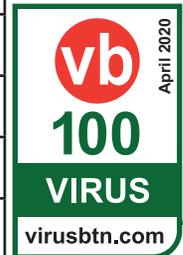
Windows 7 version	3.0.0.95
Windows 10 version	3.0.0.95
WildList detection	100.0%
False positive rate	0.005%
Diversity Test rate	92.37%



Tabidus United Endpoint Protector

(see notes in Appendix 2)

Windows 7 version	N/A
Windows 10 version	1.0
WildList detection	100.0%
False positive rate	0.001%
Diversity Test rate	98.63%



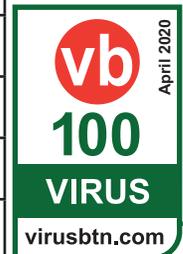
Scanguard

Windows 7 version	4.14.31
Windows 10 version	4.14.31
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



Tachyon Endpoint Security

Windows 7 version	5.0.0.57
Windows 10 version	5.0.0.57
WildList detection	99.9%
False positive rate	0.002%
Diversity Test rate	99.80%



SentinelOne Endpoint Security Platform

Windows 7 version	3.7.2.45
Windows 10 version	3.7.2.45
WildList detection	99.9%
False positive rate	0.001%
Diversity Test rate	100.00%



TeamViewer Endpoint Protection

Windows 7 version	1.5.238835
Windows 10 version	1.5.238835
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



Tencent PC Manager

Windows 7 version	12.3.26607.901
Windows 10 version	12.3.26607.901
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



VIPRE Endpoint Cloud Business

Windows 7 version	11.0.7633
Windows 10 version	11.0.7633
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



TotalAV

Windows 7 version	5.4.24
Windows 10 version	5.4.24
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



VirIT eXplorer PRO

Windows 7 version	9.1.38
Windows 10 version	9.1.35
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	66.24%



Total Defense Premium

Windows 7 version	12.0.0.251 SP1
Windows 10 version	12.0.0.251 SP1
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



APPENDIX 1: PRODUCTS NOT CERTIFIED

The following products did not achieve VB100 certification in this test:

- *Bitsentry Elite*
- *SecureAge Plus Pro*
- *SecureAge Plus Pro* with offline settings.

TUXGUARD Endpoint Protection

Windows 7 version	1.0.1.34
Windows 10 version	1.0.1.34
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



APPENDIX 2: TESTING NOTES

- Test results are invalidated for *Defenx Security Suite* as technical issues prevented us from successfully testing the product.
- The results for *Exosphere EndPoint Protection* are based only on the *Windows 10* platform due to technical issues with the product on *Windows 7*.
- *Tabidus Technology's United Endpoint Protector* was tested only on *Windows 10* as there is no *Windows 7* version of the product.

APPENDIX 3: SAMPLE SET SIZES

The WildList (certification) set contained 2,685 malicious samples. The set of clean samples used for the false positive test contained 99,991 files, of which 29,107 were portable executable (PE) files. The set used for the Diversity Test contained 1,022 malicious samples.

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