

virus

BULLETIN

Covering the global threat landscape

VB100 CERTIFICATION REPORT AUGUST 2020

VB Test Team

Since the inception of the VB100 certification scheme in 1998, both the threat landscape and the products tested by the scheme have evolved, but the VB100 award remains relevant – providing a stamp of quality and competence for anti-malware 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 43 anti-malware products from 36 different vendors during July and August 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.

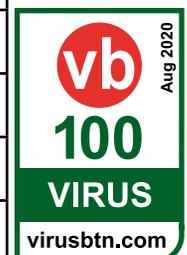
The 'Diversity Test' looks at products' detection of another set of recent malware samples, to acknowledge the fact that products detect malware samples beyond a standard set of samples, and provides a measure of that detection.

PRODUCTS & RESULTS

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

Acronis Cyber Protect

Windows 7 version	12.5.22410
Windows 10 version	12.5.22410
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.74%



Adaware Antivirus Free

Windows 7 version	12.7.1055.0
Windows 10 version	12.7.1055.0
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	100.00%



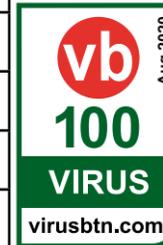
Arcabit AntiVirus

Windows 7 version	2020.07.09
Windows 10 version	2020.07.05
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Cynet 360

Windows 7 version	8.3.62.8
Windows 10 version	8.3.62.8
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.47%



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%



Adaware Antivirus Pro

Windows 7 version	12.7.1055.0
Windows 10 version	12.7.1055.0
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	100.00%



Avast Free Antivirus

Windows 7 version	20.5.2415
Windows 10 version	20.5.2415
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



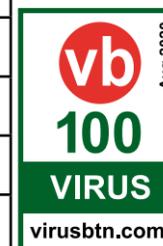
Defenx Security Suite

Windows 7 version	1.7.0.5
Windows 10 version	1.7.0.5
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	99.47%



ESET Internet Security

Windows 7 version	13.1.21.0
Windows 10 version	13.1.21.0
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



AdSpider

Windows 7 version	2020.07.09-7.84909
Windows 10 version	2020.07.03-7.85004
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	98.55%



AVG Internet Security

Windows 7 version	20.5.3130
Windows 10 version	20.5.3130
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Emsisoft Anti-Malware

Windows 7 version	2020.7.2.10280
Windows 10 version	2020.7.1.10275
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	100.00%



ESET Smart Security Premium

Windows 7 version	13.1.21.0
Windows 10 version	13.1.21.0
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



AhnLab V3 Endpoint Security

Windows 7 version	9.0.63.3
Windows 10 version	9.0.63.3
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	99.61%



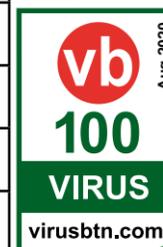
CORE Antivirus

Windows 7 version	1.0.33.0
Windows 10 version	1.0.33.0
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



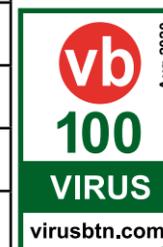
eScan Internet Security Suite for Windows

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	99.74%



ESTsecurity ALYac

Windows 7 version	4.0.2.23116
Windows 10 version	4.0.2.23116
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	100.00%



Exosphere Endpoint Protection

Windows 7 version	1.5.22.1
Windows 10 version	1.5.22.1
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



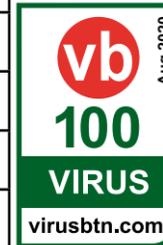
G DATA Antivirus

Windows 7 version	25.5.6.20
Windows 10 version	25.5.6.20
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.47%



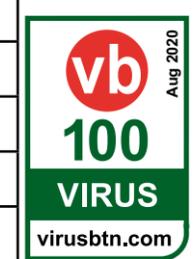
ITL Total Security

Windows 7 version	1.0.0.16
Windows 10 version	1.0.0.16
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Rising Enterprise Security Management System

Windows 7 version	3.0.0.96
Windows 10 version	3.0.0.96
WildList detection	100.0%
False positive rate	0.004%
Diversity Test rate	83.31%



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%



Hammock AssetView

Windows 7 version	12.0.0.1036
Windows 10 version	12.0.0.1036
WildList detection	100.0%
False positive rate	0.001%
Diversity Test rate	100.00%



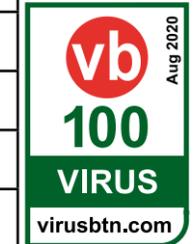
K7 Total Security

Windows 7 version	16.0.0639
Windows 10 version	16.0.0640
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.87%



Scanguard

Windows 7 version	5.5.83
Windows 10 version	5.5.83
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.47%



FireEye Endpoint Security

Windows 7 version	32.30.0
Windows 10 version	32.30.0
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	99.74%



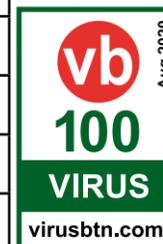
IKARUS anti.virus

Windows 7 version	3.1.16
Windows 10 version	3.1.16
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



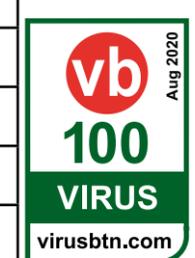
PCProtect

Windows 7 version	5.5.83
Windows 10 version	5.5.83
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.47%



SecureAge SecureAPIus Pro

Windows 7 version	6.2.1
Windows 10 version	6.2.1
WildList detection	99.8%
False positive rate	0.009%
Diversity Test rate	100.00%



Fortinet FortiClient

Windows 7 version	6.2.7.0984
Windows 10 version	6.2.7.0984
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Intego AV

Windows 7 version	1.0.0.0 (20200610)
Windows 10 version	1.0.0.0 (20200610)
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.47%



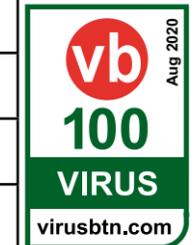
Qi-ANXIN Endpoint Security Management System

Windows 7 version	v10.0 build: 6.6.0.4086
Windows 10 version	v10.0 build: 6.6.0.4086
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Systweak Anti-virus

Windows 7 version	1.0.1000.10447
Windows 10 version	1.0.1000.10447
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



TACHYON Endpoint Security

Windows 7 version	5.0.1.32
Windows 10 version	5.0.1.32
WildList detection	99.6%
False positive rate	0.000%
Diversity Test rate	100.00%



Total Defense Premium

Windows 7 version	12.0.0.251 SP1
Windows 10 version	12.0.0.251 SP1
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	99.74%



VirIT eXplorer PRO (see notes in Appendix 2)

Windows 7 version	9.2.17
Windows 10 version	9.2.17
WildList detection	100.0%
False positive rate	0.001%
Diversity Test rate	N/A



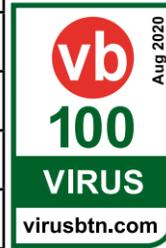
TeamViewer Endpoint Protection

Windows 7 version	20.5.1
Windows 10 version	20.5.1
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	100.00%



TUXGUARD Endpoint Protection

Windows 7 version	1.0.1.46
Windows 10 version	1.0.1.46
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



Tencent PC Manager

Windows 7 version	12.3.26609.901
Windows 10 version	12.3.26609.901
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.61%



United Endpoint Protector (see notes in Appendix 2)

Windows 7 version	N/A
Windows 10 version	1
WildList detection	100.0%
False positive rate	0.002%
Diversity Test rate	100.00%



TotalAV

Windows 7 version	5.5.83
Windows 10 version	5.5.83
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



VIPRE Endpoint Cloud Business

Windows 7 version	12.0.7874
Windows 10 version	12.0.7874
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



APPENDIX 1: PRODUCTS NOT CERTIFIED

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

- *SecureAge SecureAPlus Pro* with offline settings. This product failed to meet the requirements for VB100 certification.

APPENDIX 2: TESTING NOTES

- *Tabidus Technology's United Endpoint Protector* was tested only on *Windows 10* as there is no *Windows 7* version of the product.
- The Diversity Test results for *VirIT eXplorer PRO* were invalidated due to technical issues on both test platforms.

APPENDIX 3: SAMPLE SET SIZES

The Certification Set contained 1,678 malicious samples. The set of clean samples used for the false positive test contained 99,999 files, of which 29,211 were portable executable (PE) files. The set used for the Diversity Test contained 761 malicious samples.

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