

Covering the global threat landscape

VB100 CERTIFICATION REPORT AUGUST 2019

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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 as relevant now as it was 21 years ago – 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 of 37 anti-malware products from 34 different vendors during July and August 2019.

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

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.

Adaware Antivirus Free

Windows 7 version	12.6.1005.11662	
Windows 10 version	12.6.1005.11662	Mug 2019
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	99.69%	virusbtn.com



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

Adaware Antivirus Pro

Windows 7 version	12.6.1005.11662	
Windows 10 version	12.6.1005.11662	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.69%	virusbtn.com

Ad-Spider

Windows 7 version	2019.07.08-	
	7.81300	
Windows 10 version	2019.07.08-	019
windows to version	7.81300	
WildList detection	100.0%	100
False positive rate	0.001%	VIRUS
Diversity Test rate	99.69%	virusbtn.com

AhnLab V3 Internet Security 9.0

Windows 7 version	9.0.56.1	
Windows 10 version	9.0.56.1	
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	100.00%	virusbtn.com

Arcabit AntiVirus

Windows 7 version	2019.07.07	
Windows 10 version	2019.07.03	Aug 2019
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.79%	virusbtn.com

Avast Free Antivirus

Windows 7 version	19.6.2383	
Windows 10 version	19.6.2383	Aug 2019
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	100.00%	virusbtn.com

AVG Internet Security

Windows 7 version	19.6.3098	
Windows 10 version	19.6.3098	Aug 2019
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	100.00%	virusbtn.com

Cynet 360

Windows 7 version	8.3.54.60	
Windows 10 version	8.3.54.58	
WildList detection	99.9%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	100.00%	virusbtn.com

Cyren Command Anti-Malware

Windows 7 version	5.2.1	<u> </u>
Windows 10 version	5.2.1	
WildList detection	100.0%	100
False positive rate	0.008%	VIRUS
Diversity Test rate	98.24%	virusbtn.com

Defenx Security Suite

Windows 7 version	1.2.1.2	
Windows 10 version	1.2.1.2	2019
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	97.93%	virusbtn.com

Emsisoft Anti-Malware

Windows 7 version	2019.6.0.9533	
Windows 10 version	2019.6.0.9533	2019
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	100.00%	virusbtn.com

eScan Internet Security Suite for Windows

Windows 7 version	14.0.1400.2029	
Windows 10 version	14.0.1400.2029	
WildList detection	99.8%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.69%	virusbtn.com

ESET Internet Security

Windows 7 version	12.1.34.0	 0
Windows 10 version	12.1.34.0	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	100.00%	virusbtn.com

ESTsecurity ALYac

Windows 7 version	4.0.2.23116	
Windows 10 version	4.0.2.23116	Aug 2019
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	99.79%	virusbtn.com

Exosphere Endpoint Protection

Windows 7 version	8.3.54.36	
Windows 10 version	8.3.54.58	
WildList detection	99.8%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	99.69%	virusbtn.com

Faronics Anti-Virus

Windows 7 version	4.20.3102.471	
Windows 10 version	4.20.3102.471	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	100.00%	virusbtn.com

FireEye Endpoint Security

Windows 7 version	29.7.0	
Windows 10 version	29.7.0	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.79%	virusbtn.com

Fortinet FortiClient

Windows 7 version	5.6.2.1117	
Windows 10 version	5.6.2.1117	2019
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	100.00%	virusbtn.com

G DATA Antivirus

Windows 7 version	25.5.0.2	
Windows 10 version	25.5.0.4	
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	100.00%	virusbtn.com

Hammock AssetView

Windows 7 version	11.0.0.2202	
Windows 10 version	11.0.0.2202	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	100.00%	virusbtn.com

Heimdal Thor Vigilance

Windows 7 version	2.5.201	6
Windows 10 version	2.5.201	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.79%	virusbtn.com

IKARUS anti.virus

Windows 7 version	2.19.14	
Windows 10 version	2.19.14	
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	99.79%	virusbtn.com

K7 Total Security

Windows 7 version	15.1.0362	
Windows 10 version	15.1.0362	Aug 2019
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.79%	virusbtn.com

Kaspersky Endpoint Security 11 for Windows

Windows 7 version	11.1.0.15919	3
Windows 10 version	11.1.0.15919	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.79%	virusbtn.com

NANO Antivirus

Windows 7 version	1.0.134.90395	
Windows 10 version	1.0.134.90385	
WildList detection	100.0%	100
False positive rate	0.002%	VIRUS
Diversity Test rate	99.38%	virusbtn.com

PCProtect

Windows 7 version	4.13.75	
Windows 10 version	4.13.75	
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	99.79%	virusbtn.com

Rising Security Cloud Client

Windows 7 version	3.0.0.85	
Windows 10 version	3.0.0.90	
WildList detection	100.0%	100
False positive rate	0.004%	VIRUS
Diversity Test rate	84.25%	virusbtn.com

Scanguard

Windows 7 version	4.13.75	
Windows 10 version	4.13.75	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.79%	virusbtn.com

TACHYON Endpoint Security

Windows 7 version	5.0.0.57	
Windows 10 version	5.0.0.57	
WildList detection	99.9%	100
False positive rate	0.002%	VIRUS
Diversity Test rate	99.90%	virusbtn.com

TeamViewer Endpoint Protection

Windows 7 version	1.2.188548	
Windows 10 version	1.2.188548	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.79%	virusbtn.com

Tencent PC Manager

Windows 7 version	12.3.26607.901	
Windows 10 version	12.3.26607.901	Aug 2019
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.90%	virusbtn.com

TotalAV

Windows 7 version	4.13.75	
Windows 10 version	4.13.75	
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	99.79%	virusbtn.com

Total Defense Premium

Windows 7 version	11.5.0.222	
Windows 10 version	11.5.0.222	
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.69%	virusbtn.com

Total Defense Unlimited

Windows 7 version	11.0.0.775	
Windows 10 version	11.0.0.775	Aug 2019
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.69%	virusbtn.com

VIPRE Advanced Security

Windows 7 version	11.0.4.2	
Windows 10 version	11.0.4.2	Aug 2019
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	99.90%	virusbtn.com

VirIT eXplorer PRO

Windows 7 version	8.9.65	
Windows 10 version	8.9.65	Aug 2019
WildList detection	100.0%	100
False positive rate	0.000%	VIRUS
Diversity Test rate	65.39%	virusbtn.com

Wontok SafeCentral Security Suite

Windows 7 version	2.0.1548	
Windows 10 version	2.0.1548	
WildList detection	100.0%	
False positive rate	0.000%	100 VIRUS
Diversity Test rate	100.00%	virusbtn.com

APPENDIX 1: PRODUCTS NOT CERTIFIED

All participating products achieved VB100 certification in this test.

APPENDIX 2: EXCLUDED PARTS

- For *eScan Internet Security Suite for Windows*, the second certification part for *Windows 10* was discarded due to technical issues.
- For *Fortinet FortiClient*, the first certification part for *Windows 7* was discarded due to technical issues.
- For NANO Antivirus, the diversity test results for Windows 7 were discarded due to technical issues.

APPENDIX 3: SAMPLE SET SIZES

The WildList sample set contained 1,508 samples. The set of clean files used for the false positive test contained 99,997 files, of which 29,192 were portable executable (PE) files. The set used for the Diversity Test contained 965 samples.

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