

# Covering the global threat landscape

# VB100 CERTIFICATION REPORT FEBRUARY 2020

VB Test Team

The VB100 award remains as relevant now as it was at its inception 22 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 results of 40 such products from 36 different vendors during January and February 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 WildList<sup>1</sup> 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:

- $\bullet\,$  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 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	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%





<sup>&</sup>lt;sup>1</sup>The 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	12.7.1055.0
Windows 10 version	12.7.1055.0
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%



#### **Avast Free Antivirus**

Windows 7 version	19.8.2393
Windows 10 version	19.8.2393
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



# **Ad-Spider**

Windows 7 version	2020.01.13-7.83468	
Windows 10 version	2020.01.10-7.83433	
WildList detection	100.0%	
False positive rate	0.000%	L
Diversity Test rate	99.29%	



# **AVG Internet Security**

Windows 7 version	19.8.3108
Windows 10 version	19.8.3108
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



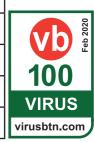
# AhnLab V3 Internet Security 9.0

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	100.00%



# **BitSentry Elite**

Windows 7 version	1.0.5.170
Windows 10 version	1.0.5.170
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%



#### **Arcabit AntiVirus**

Windows 7 version	2020.01.11
Windows 10 version	2020.01.11
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%



### Cynet 360

Windows 7 version	8.3.54.150
Windows 10 version	8.3.54.150
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	98.17%



# **Defenx Security Suite**

Windows 7 version	1.5.0.19
Windows 10 version	1.5.0.19
WildList detection	99.7%
False positive rate	0.000%
Diversity Test rate	98.27%



#### **Emsisoft Anti-Malware**

Windows 7 version	2020.1.0.9926
Windows 10 version	2020.1.0.9926
WildList detection	99.8%
False positive rate	0.000%
Diversity Test rate	100.00%



# **eScan Internet Security Suite for Windows**

Windows 7 version	14.0.1400.2175
Windows 10 version	14.0.1400.2175
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



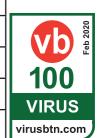
# **ESET Endpoint Security**

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%



# **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%



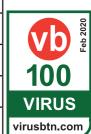
# **ESET Smart Security Premium**

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%



# **ESTsecurity ALYac**

Windows 7 version	4.0.2.23116
Windows 10 version	4.0.2.23116
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%



### **Exosphere Endpoint Protection**

Windows 7 version	8.3.54.158
Windows 10 version	8.3.54.154
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.90%



#### **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%



**Heimdal Thor Vigilance** 

Windows 7 version	2.5.223
Windows 10 version	2.5.223
WildList detection	99.7%
False positive rate	0.000%
Diversity Test rate	98.06%



# FireEye Endpoint Security

Windows 7 version	31.28.1
Windows 10 version	31.28.1
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%



# **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%



# **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	100.00%



# Intego AV

Windows 7 version	1.0.0.13
Windows 10 version	1.0.0.13
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.59%



#### **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%



### **ITL Total Security**

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	98.27%



# **K7 Total Security**

Windows 7 version	16.0.0128
Windows 10 version	16.0.0128
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



# 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	99.80%



#### **NANO Antivirus**

Windows 7 version	1.0.134.90567
Windows 10 version	1.0.134.90567
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	83.15%



#### **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	98.17%



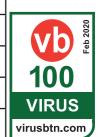
# **Rising Enterprise Security Management System**

Windows 7 version	3.0.0.95
Windows 10 version	3.0.0.93
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	60.27%



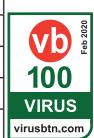
# **Scanguard**

Windows 7 version	4.14.31
Windows 10 version	4.14.31
WildList detection	99.9%
False positive rate	0.000%
Diversity Test rate	98.17%



# Systweak Anti-virus

Windows 7 version	1.0.1000.9560
Windows 10 version	1.0.1000.9560
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.59%



# **TACHYON Endpoint Security**

Windows 7 version	5.0.0.57
Windows 10 version	5.0.0.57
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	100.00%



### **TeamViewer Endpoint Protection**

Windows 7 version	1.4.225047	
Windows 10 version	1.4.225047	
WildList detection	100.0%	
False positive rate	0.000%	
Diversity Test rate	99.29%	vi



# **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%



#### **TotalAV**

Windows 7 version	5.4.24
Windows 10 version	5.4.24
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.69%



#### **Total Defense Premium**

Windows 7 version	12.0.0.243
Windows 10 version	12.0.0.243
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%



#### **VIPRE Endpoint Cloud Business**

Windows 7 version	11.0.7633
Windows 10 version	11.0.7633
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.29%



# **VirIT eXplorer PRO**

Windows 7 version	9.0.95
Windows 10 version	9.0.94
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	63.13%



# **Wontok SafeCentral Security Suite**

Windows 7 version	2.0.1653
Windows 10 version	2.0.1653
WildList detection	100.0%
False positive rate	0.000%
Diversity Test rate	99.59%



#### **APPENDIX 1: PRODUCTS NOT CERTIFIED**

There were two products that failed to achieve VB100 certification in this test: *Cyren Command Anti-Malware* and *SecureAge Plus Pro*.

#### **APPENDIX 2: TESTING NOTES**

BitSentry Elite had eight missed detections in the Diversity set. The product's developers provided new product settings during the dispute period. Using the new settings the samples that were missed in the test would have been

detected. However, the VB100 rules dictate that, since the data collection period had already ended, the results could not be changed in the final VB100 report. The amended settings will be used in future tests.

#### **APPENDIX 3: SAMPLE SET SIZES**

The WildList (certification) set contained 2,948 malicious samples. The set of clean samples used for the false positive test contained 100,000 files, of which 29,228 were portable executable (PE) files. The set used for the Diversity Test contained 981 malicious samples.

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