

Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

Security Software Review

Author: Thomas Glennon

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Company Number: 400703 VAT Registered Number: IE 6420703G
Directors: Nick Wheeler, Chris Thomson, Philip Lacey



Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

1. Introduction

1.1 Overview

This document outlines antivirus and spyware products detailing their pros and cons and how they could best benefit All n One Ltd. This review was conducted after extensive researching.

1.2 Key Project Variables

Ticket Number:	2648
Status Summary:	Review
Primary Project Manager:	TG

Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
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1.3 Contents

1. Introduction.....	2
1.1 Overview	2
1.2 Key Project Variables	2
1.3 Contents	3
1.4 Acronyms and Abbreviations.....	7
1.4.1 All n One	7
1.4.2 Abbreviations.....	7
1.5 Key Stakeholders	8
1.5.1 All n One	8
1.6 Version History	9
2 Lexicon.....	10
3 Anti-Virus Software.....	12
3.1 What is anti-virus software?.....	12
3.2 AVG Anti-Virus 2014.....	13
3.2.1 Platforms.....	13
3.2.2 Details.....	13
3.2.3 Pros	15
3.2.4 Cons	15
3.2.5 Cost	15
3.2.6 URL.....	15
3.3 Avast! 2014.....	16
3.3.1 Platforms.....	16
3.3.2 Details.....	16
3.3.3 Pros	18
3.3.4 Cons	18
3.3.5 Cost	18
3.3.6 URL.....	18
3.4 Norton Symantec Security	19
3.4.1 Platforms.....	19



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- 3.4.2 Details..... 19
- 3.4.3 Pros 20
- 3.4.4 Cons 21
- 3.4.5 Cost 21
- 3.4.6 URL..... 21
- 3.5 Bitdefender Small Office Security 22
 - 3.5.1 Platforms..... 23
 - 3.5.2 Details..... 23
 - 3.5.3 Pros 25
 - 3.5.4 Cons 26
 - 3.5.5 Cost 26
 - 3.5.6 URL..... 26
- 4 Open Source Anti-Virus Solutions..... 27
 - 4.1 Avast! 2014 FREE 27
 - 4.1.1 Platforms..... 27
 - 4.1.2 Details..... 27
 - 4.1.3 Pros 28
 - 4.1.4 Cons 28
 - 4.1.5 Price 28
 - 4.1.6 URL..... 28
 - 4.2 AVG 2014 FREE 29
 - 4.2.1 Platforms..... 29
 - 4.2.2 Details..... 29
 - 4.2.3 Pros 29
 - 4.2.4 Cons 30
 - 4.2.5 Price 30
 - 4.2.6 URL..... 30
- 5 AV-Comparatives..... 31
- 6 System Optimisation software 33
 - 6.1 CCleaner 34
 - 6.1.1 Details..... 34
 - 6.1.2 Pros 35





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Lower Ballymount Road
Dublin 12
Ireland

- 6.1.3 Cons35
- 6.1.4 Cost35
- 6.1.5 URL.....35
- 7 Browser Plugins.....36
 - 7.1 Ad-Block Plus36
 - 7.1.1 Pros36
 - 7.1.2 Cons36
 - 7.1.3 Cost37
 - 7.1.4 URL.....37
- 8 Anti Spyware38
 - 8.1 SuperAntiSpyware.....38
 - 8.1.1 Pros38
 - 8.1.2 Cons39
 - 8.1.3 Cost39
 - 8.1.4 URL.....39
 - 8.2 Spybot – Search & Destroy40
 - 8.2.1 Spybot version 2.040
 - 8.2.2 Spybot version 1.6.2.....42
 - 8.3 Ad-Aware.....43
 - 8.3.1 Details.....43
 - 8.3.2 Pros43
 - 8.3.3 Cons43
 - 8.3.4 Cost43
 - 8.3.5 URL.....43
- 9 Server Anti-Virus44
 - 9.1 Clamwin Anti-Virus.....44
 - 9.1.1 Pros44
 - 9.1.2 Cons44
 - 9.1.3 Cost45
 - 9.1.4 URL.....45
 - 9.2 AVG File Server Network Security for SME.....46
 - 9.2.1 Platforms.....46



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9.2.2	Details.....	46
9.2.3	Pros	47
9.2.4	Cons	47
9.2.5	Cost	47
9.2.6	URL.....	47
9.3	Kaspersky Small Office Security.....	48
9.3.1	Platforms.....	48
9.3.2	Details.....	48
9.3.3	Pros	49
9.3.4	Cons	49
9.3.5	Cost	49
9.3.6	URL.....	49
10	Recommendations.....	50
10.1	Home Use	50
10.2	Business Use	51
10.3	Business Server Use.....	51
11	References	53



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1.4 Acronyms and Abbreviations

1.4.1 All n One

BE Business Express

1.4.2 Abbreviations

AV Anti-Virus
HTML HyperText Markup Language
HTTP HyperText Transfer Protocol
HTTPS HyperText Transfer Protocol Secure
IaaS Infrastructure as a Service
ISMS Information Security Management System
IP Internet Protocol
ISP Internet Service Provider
PaaS Platform as a Service
PC Personal Computer
SaaS Software as a Service
URL Uniform Resource Locator
Wixi Wikipedia for Business Express

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www.allnone.ie

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48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

1.5 Key Stakeholders

1.5.1 All n One

<i>Initial</i>	<i>Name</i>	<i>Company</i>	<i>Role</i>	<i>Email Address</i>
NW	Nick Wheeler	All n One Ltd	CEO	nick.wheeler@allnone.ie
CT	Chris Thomson	All n One Ltd	MD	chris.thomson@allnone.ie
PL	Philip Lacey	All n One Ltd	IT Director	philip.lacey@allnone.ie
CD	Carolann Diskin	All n One Ltd	Product Owner	carolann.diskin@allnone.ie
DC	Daniel Coughlan	All n One Ltd	Framework Developer	daniel.coughlan@allnone.ie
PJ	Patrick Jenkins	All n One Ltd	Content Developer	patrick.jenkins@allnone.ie
RC	Robert Carson	All n One Ltd	Infrastructure Intern	Robert.carson@allnone.ie
TG	Thomas Glennon	All n One Ltd	IT Security Intern	Thomas.glennon@allnone.ie



Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

1.6 Version History

Version	1-4
Date	2014-07-18
Author	Thomas Glennon
Modifications	Further content and structural updates

Version	1-3
Date	2014-04-08
Author	Thomas Glennon
Modifications	Second Draft. Content Update

Version	1-2
Date	2014-03-29
Author	Philip Lacey
Modifications	Reformatting of layout. Content review.

Version	1-1
Date	2014-02-05
Author	Carolann Diskin
Modifications	Document Update

Version	1-0
Date	2014-02-04
Author	Thomas Glennon
Modifications	Initial draft



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2 Lexicon

Spyware - Is software that aids in gathering information about a person or organisation without their knowledge and that may send such information to another entity without the consumer's consent, or that asserts control over a computer without the consumer's knowledge.

Adware - Is any software package which automatically renders advertisements in order to generate revenue for its author.

A **computer worm** is a standalone malware computer program that replicates itself in order to spread to other computers.

A **Trojan horse**, or Trojan, in computing is a non-self-replicating type of malware program containing malicious code that, when executed, carries out actions determined by the nature of the Trojan, typically causing loss or theft of data, and possible system harm.

A **rootkit** is a stealthy type of software, typically malicious, designed to hide the existence of certain processes or programs from normal methods of detection and enable continued privileged access to a computer.

Crimeware - Is designed to perpetrate identity theft in order to access a computer user's online accounts at financial services companies and online retailers for the purpose of taking funds from those accounts or completing unauthorized transactions that enrich the thief controlling the crimeware.

Antivirus, anti-virus, or AV software is computer software used to prevent, detect and remove malicious computer viruses.

The **Windows Registry** is a hierarchical database that stores configuration settings and options on Microsoft Windows operating systems.



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Key Loggers, often referred to as keystroke logging or Keyboard Capturing, is the action of recording (or logging) the keys struck on a keyboard, typically in a covert manner so that the person using the keyboard is unaware that their actions are being monitored.

A **cookie**, also known as an HTTP cookie, web cookie, or browser cookie, is a small piece of data sent from a website and stored in a user's web browser while the user is browsing that website. Every time the user loads the website, the browser sends the cookie back to the server to notify the website of the user's previous activity.

A **false positive** is another way of saying 'mistake'. As applied to the field of anti-virus programs, a false positive occurs when the program mistakenly flags an innocent file as being infected.

Snooping, in a security context, is unauthorized access to another person's or company's data.

URL - A uniform resource locator, abbreviated URL (also known as web address, particularly when used with HTTP), is a specific character string that constitutes a reference to a resource.

3 Anti-Virus Software

3.1 What is anti-virus software?

Anti-virus software is a program or set of programs that are designed to prevent, search for, detect, and remove software viruses, and other malicious software like worms, trojans, adware, and more.

These tools are critical for users to have installed and up-to-date because a computer without anti-virus software installed will be infected within minutes of connecting to the internet. The bombardment is constant, with anti-virus companies update their detection tools constantly to deal with the more than 60,000 new pieces of malware created daily.

There are several different companies that build and offer anti-virus software and what each offers can vary but all perform some basic functions:

- Scan specific files or directories for any malware or known malicious patterns
- Allow you to schedule scans to automatically run for you
- Allow you to initiate a scan of a specific file or of your computer, or of a CD or flash drive at any time.
- Remove any malicious code detected –sometimes you will be notified of an infection and asked if you want to clean the file, other programs will automatically do this behind the scenes.
- Show you the 'health' of your computer

Always be sure you have the best, up-to-date security software installed to protect your computers, laptops, tablets and smartphones.

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3.2 AVG Anti-Virus 2014



AVG, the online security company, puts people in control of their connected lives.

More than 177 million active users (as of December 31, 2013) count on AVG products and services every day for their protection, performance, and privacy. AVG safeguards their personal information, keeps their devices running smoothly, and alleviates the worries of viruses and malware.

The portfolio of AVG products and services has grown significantly in recent years as people's lives have become more and more connected. Being mobile, family safety and even the connected home are all examples of where AVG is looking ahead and continuing to grow.

3.2.1 Platforms

AVG is compatible with Windows XP/Vista/7/8/8.1

3.2.2 Details

Founded 1991

Headquarters: Amsterdam, The Netherlands

Portfolio focus: Protection, Performance, Privacy

Platforms and devices: PC Mac®, iPhone®, iOS®, Android™, Windows Phone®

More than 177 million active users (as of December 31, 2013)

14 offices worldwide

More than 1000 employees worldwide



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www. allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

The key to AVG's efficiency in detecting infected files and exploits is the technology's multiple layers of protection. Files are pre-processed - and those deemed unnecessary for virus analysis are excluded to enable faster scanning.

Signature-based detection

This attempts to match files to known virus signatures - a sequence of bytes known to be characteristic of a specific virus. Detailed analysis is then performed to identify the exact infection.

Polymorphic-based detection

A common method for detecting known viruses, this is used to determine new variants of recognized viruses, even if the new variant behaves differently. This method is particularly effective in the detection of macro viruses and script viruses.

Heuristic-based analysis

The third layer for detecting viruses is heuristic analysis, which looks at the way software behaves in order to identify whether or not it is malicious. This allows it to detect a virus, which is not included in the internal virus database.

Behaviour-based analysis

This is the fourth layer for detecting viruses. This patent-pending technology looks at how software behaves to determine hostile file behaviour and preventing their execution.

There are two Types of anti-virus that AVG provide that would be suitable for AllnOne's needs.

1. AVG Anti-Virus Business Edition
2. AVG Internet Security Business Edition

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Dublin 12
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Both provide the same services which are:

- Free Business Technical Support – AVG experts are a call away with free business support
- Remote Endpoint Management – Manage your network endpoint software remotely from a single location with AVG Remote Administration
- File Server Security – Antivirus protection for your Microsoft File and Windows SharePoint Servers
- Endpoint Security – Award winning antivirus endpoint protection for your PCs and laptops
- Firewall Security – Wherever you are AVG firewall will keep Viruses and hackers away

The internet security BE has an added feature of Email Server Security. This keeps your emails safe – from server to inbox with email server protection.

3.2.3 Pros

AVG Internet Security Business Edition can manage email scanning, internet security, file server protection and client workstations. It is affordably priced and is a practical solution for smaller businesses.

3.2.4 Cons

AVG Internet Security Business Edition has few tools beyond internet and email protection for data loss protection (DLP). AVG Technologies does not provide advanced service options or 24/7 support.

3.2.5 Cost

3. AVG Antivirus Business Edition	€89.95 Inc. VAT
4. AVG Internet Security Business Edition	€125.95 Inc. VAT

3.2.6 URL

<http://www.avg.com/ie-en/business-product-comparison>

Phone:

+ 353 1 4294000

Web

www.allnone.ie

Address

48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

3.3 Avast! 2014



AVAST's roots go back to 1988, when Czech researchers Eduard Kučera and Pavel Baudiš encountered the Vienna Virus and began their quest to save the world's computers from it and others like it.

Today AVAST has over 380 professionals headquartered in Prague, Czech Republic, with additional offices in Germany, the USA, and China, distribution partners in all markets, and a global community of avast! enthusiasts.

On its 25th anniversary, avast! antivirus claims an industry record by protecting over 200 million PCs, Macs, and Android devices worldwide – and is ranked the most-downloaded product on several major global software portals. As well, AVAST Software (the company) acquires the German company secure.me and USA-based start-up Jumpshot, gets awarded the Czech Republic's "Best Employer 2013" in the category of large companies, and finishes the year as the most-profitable IT company in its home country, with just over 350 employees.

New product launches for avast! 2014 series include new features like:

- New Artificial-Intelligence-driven DynaGen technology
- Avast! SecureLine VPN (a virtual private network for encrypting and anonymizing web activity)
- Avast! GrimeFighter (for optimizing/speeding up PC functionality).

3.3.1 Platforms

Avast! is compatible with Windows XP/Vista/7/8/8.1

3.3.2 Details

Avast! Provides us with two feasible solutions for All n One's needs

1. Avast! Endpoint Protection
2. Avast! Endpoint Protection Plus

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The two solutions share some similar features which are:

- User Interface (UI) – The avast! UI has been redesigned to keep up with modern navigation styles. Newbies will find it easy to use, while geeks are still able to access advanced customizable features.
- Antivirus and Anti-spyware engine - Their award-winning scanning engine protects against viruses, spyware, and other malicious agents, now with a new algorithm that is based on machine learning, which can process new-virus data in milliseconds rather than hours.
- Behaviours Shield - Their Behaviour Shield now uses more sophisticated logic for determining – with greater precision – whether any running processes are displaying any unusual behaviour.
- Remote Assistance - The Remote Assistance feature allows avast! users to connect and share desktops with each other. This may be useful for technical support as well as for general administrative purpose. Streaming.
- Real-time Virus database updates - Each virus signature comes to you in real-time via connection to the AVAST Virus Lab cloud, rather than needing to wait for a traditional virus-database update. Your database will be continuously updated with latest definitions.
- Avast! Sandbox - Provides an extra layer of security for you to run your applications in a virtual environment – where any attacks are thus contained instead of attacking your real PC.
- File reputation system - Now with more than a billion unique files in their cloud, avast! FileRep lets you know whether a file is safe before you open it – determined in part by how many people have the file and how new the file is. The technology is also used internally, to help the scanning engine make more intelligent decisions.

The Endpoint Protection Plus software comes with an added Firewall and Anti-spam modules.

- Anti-spam - Comprehensive spam and phishing filter, which works also as a plug-in to MS Outlook and a generic POP3/IMAP4 proxy for other email clients – now with better reporting functionality.
- Silent Firewall - Their firewall stops hackers, using heuristic and behavioural analysis and a white list of safe applications. It offers improved logging for better details/stats, and supports both IPv4 (standard) and new IPv6 networks.

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3.3.3 Pros

Avast protects your endpoints even when they are not connected to your network. The newest version includes remote management tools so you can provide support and perform administration duties from anywhere

3.3.4 Cons

This business antivirus solution does not support Mac computers in the business package. It also does not include tools for remotely locating and wiping the memory of lost or stolen laptops.

When the software is installed you must access the setting to un-check the box for avast sounds as the speech module can be mildly irritating.

3.3.5 Cost

Prices may Change depending on amount of devices and years purchased of the service.

Avast! Endpoint Protection – 1 years for 10 devices = €264.39
 2 years for 10 devices = €390.89
 3 years for 10 devices = €471.39

Avast! Endpoint Protection Plus – 1 years for 10 devices = €333.39
 2 years for 10 devices = €494.39
 3 years for 10 devices = €597.89

3.3.6 URL

<http://www.avast.com/en-eu/endpoint-protection-plus#technology>
<http://www.avast.com/en-eu/endpoint-protection>

Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland



3.4 Norton Symantec Security

Symantec was founded in 1982. The company has evolved to become one of the world's largest software companies with more than 18,500 employees in more than 50 countries. They provide security, storage and systems management solutions to help their customers from consumers and small businesses to the largest global organisations to secure and manage their information driven world against more risks.

3.4.1 Platforms

Windows XP with SP2 / Vista / 7 / 8 / 8.1

3.4.2 Details

With Norton there is only one cost effective method for All n One's Need which is Symantec Endpoint Protection Small Business Edition 2013.

On 10TenTenReviews.com this particular product got a 10/10 rating which none of the other anti-virus solutions achieved. The verdict they gave on the product was:

"If you need aggressive, highly configurable security, Symantec is an apt choice. It protects all types of endpoints and provides compliance-level DLP technologies. It is well-supported by its service team and supports an active online user community. Administrators will appreciate the advanced configuration options and reporting tools. By our opinion and industry reputation, it is a market leader for endpoint protection."

Some of the features provided by this software solution include:

- IPS & AV layered protection for Mac – Provides security with a single, high powered agent that integrates both IPS and antivirus for mac users.
- Fast Path Feature – Allows you to identify critical events almost in real-time to create the fastest, most effective solution available.



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- Seamless Console Experience – Eliminates confusion between Mac and Windows.
- Security - Today's complicated threat landscape requires sophisticated protection from large-scale malware to the most targeted attacks. Only Symantec uses Insight, with the collective wisdom of 200+ million systems in over 200 countries to identify and create a security rating for every file accessed through the internet. This superior reputation technology is combined with network, behaviour, file and repair layers of defence to provide unrivalled security against known, and unknown, threats.
- Performance - In today's global business environment, every second counts. Symantec Endpoint Protection 12.1.4 has replaced traditional scanning of every file with scan elimination and de-duplication through Virtual Image Exception and Shared Insight Cache, and access to the largest Global Intelligence Network to reduce scan times and provide the fastest performance available. Quite simply, files known to be good can be skipped, causing Endpoint Protection to scan faster and smarter.
- Built for Virtual Environments - Symantec integrates with VMware vShield Endpoint and has been optimized to secure your high-density business critical environments with the effectiveness you need and the performance you demand.

3.4.3 Pros

This year, Symantec rolled out new technologies for combating targeted attacks, plus security for Mac devices and employee-owned devices to help companies tighten up possible security gaps. It now protects all types of endpoints and provides numerous configuration options for administrators. It also works seamlessly with its DLP and backup solutions.



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3.4.4 Cons

Symantec's endpoint solutions are most suitable for larger organisations with an IT team. Although it does provide solutions for small offices, its technologies are best optimized by larger organisations. Small organisations may consider its cloud-based solution.

3.4.5 Cost

Prices may Change depending on amount of devices and years purchased of the service.

Symantec Endpoint Protection SME Edition 2013– 1 years for 5 devices = €120.00

2 years for 5 devices = €200.00

3 years for 5 devices = €240.00

3.4.6 URL

<http://buy.symantec.com/estore/clp/productdetails/pk/endpoint-protection-small-business-edition-2013>

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3.5 Bitdefender Small Office Security



Since its inception in 2001, Bitdefender has continued to raise the bar to set new standards in proactive threat prevention and virus removal, in many cases leading the way in the best Internet security detection techniques to prevent the spread of malicious threats.

Thanks to its first-class products and state of the art technologies, the company rapidly expanded into a worldwide leader. Bitdefender made its entrance on the international market when opening offices in the UK, USA, Germany, France and Spain, as well as establishing strategic partnerships and a local presence in over 100 countries globally.

By the end of 2009, Bitdefender was protecting millions of users globally and had established trusted use of their technology with household names like IBM and Virgin Media through strategic partnerships.

2011 brought a pivotal change in Bitdefender's company philosophy, as the organisation embraced a new corporate identity. It was also a year of success, as the company's consumer products were the first in years to be voted the #1 choice (in terms of internet security) by three of the most important independent testing organisations in the world.

The new image acts as a binder between the company's roots and its future. One thing has remained unchanged: Bitdefender's capacity of delivering top antivirus products. Bitdefender provides the best antivirus solutions using the same award-winning technology for consumers and for corporate networks, from the small business right through to the global enterprise, protecting all endpoints.



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The Bitdefender proprietary technologies, based on innovative ideas and leading trends in the information security industry, continue to be internationally recognized as the best Internet security software. The independent organisations which reward their results through numerous prizes and certifications are: Av-Test.org, Virus Bulletin, ICSA Lab, Checkmark, PC World Top 100, just to name but a few.

Bitdefender strives to constantly develop technology to stay one step ahead in offering their customers one of the best antivirus detection, combined with flexible usability and performance.

Bitdefender is one of the highest rated AV products on the market. Even though they offer many solutions I chose the Small Office Security as All n One's best option. This is because the other solutions that bitdefender offer are cloud based and considering we provide a cloud based service as it is I would much rather have the security on premises.

3.5.1 Platforms

Windows XP/Vista/7/8. Mac OS.

3.5.2 Details

This Antivirus in question has won multiple awards quite recently like PCMAG.COM (best antivirus 2014), AV comparatives (Gold standard AV 2014) and AV-Test.com (Best protection 2013 and performance 2013).

The features this antivirus boasts include:



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Directors: Nick Wheeler, Chris Thomson, Philip Lacey





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- Comprehensive Protection - Security that guards your computers against viruses, rootkits, malware, phishing, data loss, web threats and much more.
- Advanced heuristics, web filtering, search advisor, USB scanning to block all malware entry points.
With Bitdefender consistently being ranked first in independent tests, you can relax knowing you can't get better protection
- Tamper-proof security, always on and up-to-date - Sensitive data and productivity can be compromised when users forget to update or even deactivate security. CSE updates are automatic and users can't interfere with the settings or deactivate protection.
- Minimum time to install and manage - Console available immediately after signup.
Automatically discover network computers using Windows Network Discovery – remote, link and email deployment options available.
- Automatically uninstall legacy solutions. Start faster with provided security policy templates
- Increased Employee Productivity – User, web, and application control allow the administrator to restrict or even block employee access to certain websites or applications.
- With centralized management, employees never have to update, monitor or troubleshoot security again and can focus 100% on the business.



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- Reduce Costs with simplified Architecture – Implement a powerful but simple solution and eliminate the need for dedicated servers, maintenance or added IT staff.
- Reduce costs and centralize security for any number of users or customers to a single console.
- Granular policy settings are available for advanced admins, but those without an IT background will also find the solution simple to manage.
- Ideal for value added resellers and Managed Security Providers - Manage all customers from the same remote console with no onsite visits, and centralized provisioning and management.
- Implement monthly consumption based licensing.
- Grow from the simplest to the largest deployment with ease.
- Service provider can customize branding for the console and reports.
- Multi-tier partner and customer accounts.

3.5.3 Pros

BitDefender offers free 24/7 technical support





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3.5.4 Cons

Some versions of AutoCAD might cause some cursor misbehaviour if installed with BitDefender.

3.5.5 Cost

Bitdefender Small Office Security – 1 years for 10 devices = €235.20
2 years for 10 devices = €504.00
3 years for 10 devices = €672.00

3.5.6 URL

<http://www.bitdefender.com/business/small-office-security.html>

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Ireland

4 Open Source Anti-Virus Solutions

4.1 Avast! 2014 FREE



4.1.1 Platforms

Windows XP / VISTA / 7 / 8 / 8.1

4.1.2 Details

Avast! Free Antivirus provides real-time protection for your computer. It constantly updates its database of virus definitions to ensure you get maximum protection against viruses and spyware. Five different types of scans are available. You'll get a rapid, meticulous scan which will target removable media and files that you choose, as well as launching a scan when you boot up your computer. The software is also able to scan rootkits at system start up.

Avast! Free Antivirus also offers a selection of tools to help you perform various tasks: there's a tool for updating the software on your computer; a tool for cleaning your browser (mainly of toolbars and unwanted extensions); a tool that lets you use it via remote control (to control your PC or your mobile devices remotely and troubleshoot a friend's computer); and or a tool for creating rescue disks.



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4.1.3 Pros

- 5 protection shields
- New installer and interface
- Remote help feature
- W8 compatible
- Second line installation option
- Much better resource consumption

4.1.4 Cons

- Need to disable voice commands manually on avast! As they are the default setting when downloaded.
- Need to validate free software with email address after two weeks

4.1.5 Price

Free for home use as the free version does not support business licences.

4.1.6 URL

www.download.cnet.com/Avast-Free-Antivirus-2014/3000-2239_4-10019223.html?part=dl-85737&subj=dl&tag=button

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Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
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Dublin 12
Ireland

4.2 AVG 2014 FREE



4.2.1 Platforms

Windows XP / VISTA / 7 / 8 / 8.1, Mac Os

4.2.2 Details

The product itself is free, but AVG really, really wants you to launch a 30-day trial of their full security suite. You get that option during installation, and a banner across the bottom of the main window repeats the offer each time you launch the antivirus. As I stepped through the product's features, I found quite a few marked "Upgrade to activate."

One row of big buttons on AVG's main window let you access components like computer protection and Web browsing protection. Another row links to an array of other solutions from AVG. You can launch a one-time performance-fixing scan, and optionally install AVG's tune-up solution. There are links to the company's mobile apps, and to a partner-licenses app for ensuring you have the latest drivers. And a whole separate "More from AVG" page displays the company's entire line of products, most of which require separate purchase.

The AV solution is free but you will need to avoid AVG's attempt to up sell you to the paid version.

4.2.3 Pros

Live Email scanner and excellent protection against malware attack on a clean system. Effective malware clean-up. Toolbar offers secure search, Do Not Track, Facebook view, more. Includes secure deletion file shredder. Free!



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4.2.4 Cons

Difficult installation on malware-infested test systems. Some users may object to numerous upsell attempts.

4.2.5 Price

Free for home use as the free version does not support business licences

4.2.6 URL

www.download.cnet.com/AVG-AntiVirus-Free-2014/3000-2239_4-10320142.html?part=dl-avg_free_ie&subj=dl&tag=button

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www.allnone.ie

Address
48/49 Western Parkway Business Park
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5 AV-Comparatives

The following are graphs pulled from <http://www.av-comparatives.org/>. That compare the performance of AV software on a windows 7 machine.

Overview of single AV-C performance scores

Vendor	File copying		Archiving/ unarchiving	Installing/ uninstalling applications	Encoding/ transcoding	Launching applications				Downloading files
	On first run	On subsequent runs				Open Office documents		Open PDF		
						On first run	On subsequent runs	On first run	On subsequent runs	
Avast	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
AVG	slow	fast	fast	fast	fast	fast	fast	fast	fast	fast
AVIRA	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Bitdefender	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
BullGuard	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Emsisoft	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
eScan	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
ESET	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Fortinet	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
F-Secure	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
G DATA	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Kaspersky	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Kingsoft	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
McAfee	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Microsoft	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Panda	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Qihoo	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Sophos	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Symantec	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Trend Micro	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast
Vipre	fast	fast	fast	fast	fast	fast	fast	fast	fast	fast

Key:  slow  mediocre  fast  very fast



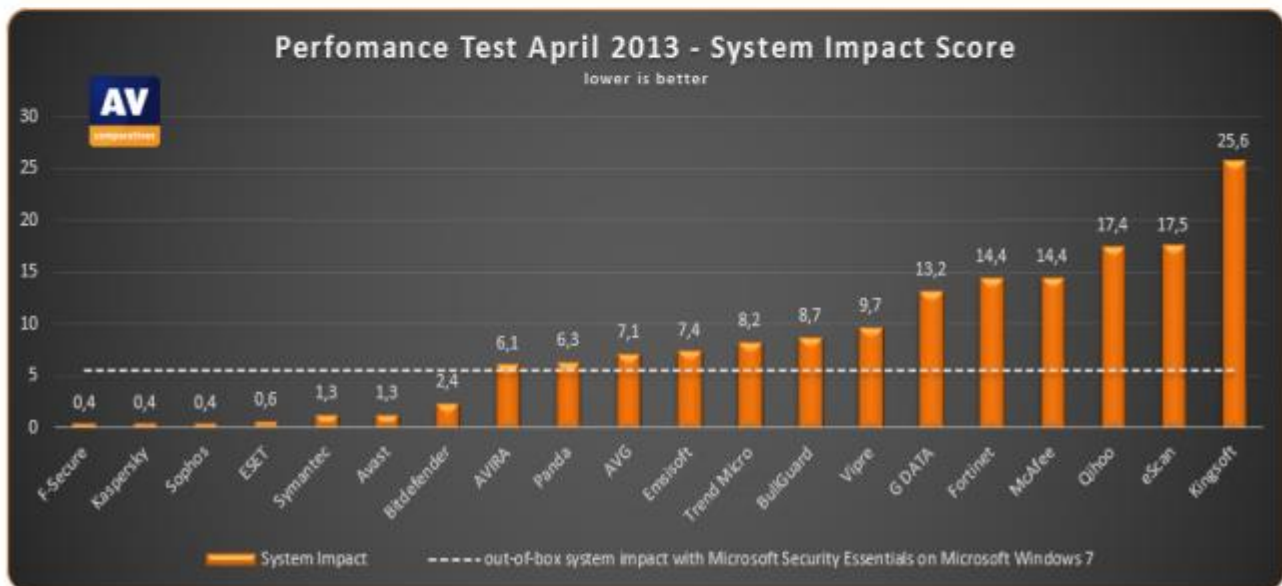
In the graph below the lower the score the better performance.

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	AV-C Score	PC Mark Score	TOTAL	Impact Score
F-Secure, Kaspersky, Sophos	90	99,6	189,6	0,4
ESET	90	99,4	189,4	0,6
Avast, Symantec	90	98,7	188,7	1,3
Bitdefender	90	97,6	187,6	2,4
Microsoft	85	99,4	184,4	5,6
AVIRA	85	98,9	183,9	6,1
Panda	85	98,7	183,7	6,3
AVG	85	97,9	182,9	7,1
Emsisoft	85	97,6	182,6	7,4
Trend Micro	85	96,8	181,8	8,2
BullGuard	85	96,3	181,3	8,7
Vipre	83	97,3	180,3	9,7
G DATA	80	96,8	176,8	13,2
Fortinet, McAfee	78	97,6	175,6	14,4
Qihoo	75	97,6	172,6	17,4
eScan	80	92,5	172,5	17,5
Kingsoft	73	91,4	164,4	25,6



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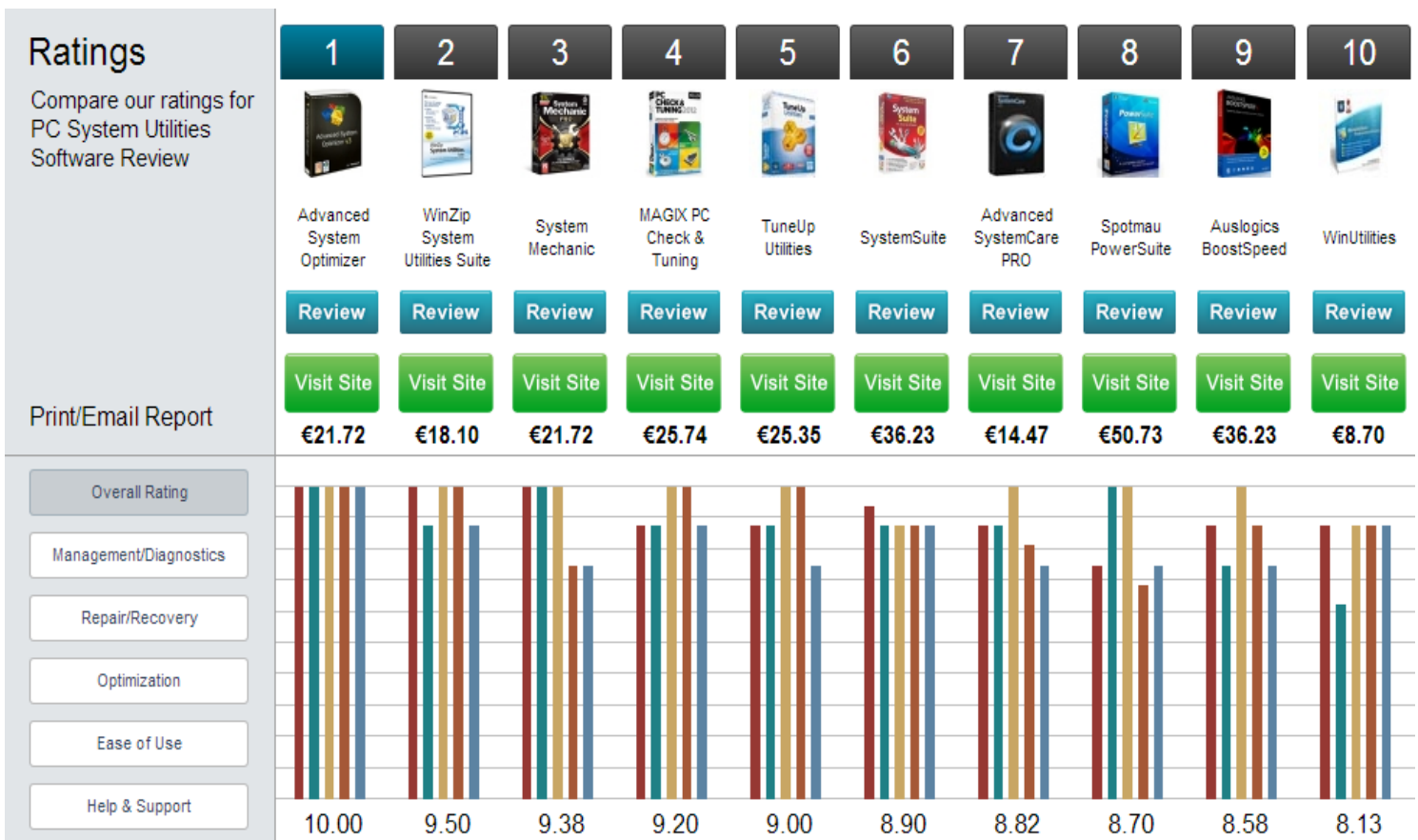
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6 System Optimisation software

System Optimization tools have utilities for optimization, speedup, clean-up, memory management, etc. Its utilities include system cleaners, system and memory optimizers, junk file cleaners, privacy protectors, start-up managers, security tools and other maintenance tools.

These tools can be very beneficial especially on a low powered computer or one with small hard disk space. At all n One we use CCleaner as it is one of the only free solutions that is trusted and downloaded over 79 million times.

Other tools provide very similar functionality but these functions are not cost effective to All n One's needs.



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6.1 CCleaner



Piriform are global leaders in PC optimization software, with offices in London, New York and Eastern Europe. Their dedicated to creating the best applications for your PC.

6.1.1 Details

CCleaner is a system optimization, privacy and cleaning tool. It removes unused files from your system - allowing Windows to run faster and freeing up valuable hard disk space.

It also cleans traces of your online activities such as your Internet history. Additionally it contains a fully featured registry cleaner. But the best part is that it's fast (normally taking less than a second to run) and contains *no* Spyware or Adware!

Cleans the following-

Internet Explorer

Temporary files, history, cookies, super cookies, Autocomplete form history, and index.dat files.

Firefox

Temporary files, history, cookies, super cookies, download history, and form history.

Windows

Recycle Bin, Recent Documents, Temporary files, Log files, Clipboard, DNS Cache, Error Reporting, Memory Dumps and Jump Lists.

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48/49 Western Parkway Business Park
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Ireland

Registry Cleaner

Advanced features to remove unused and old entries, including File Extensions, ActiveX Controls, ClassIDs, ProgIDs, Uninstallers, Shared DLLs, Fonts, Help Files, Application Paths, Icons, Invalid Shortcuts and more...

100% Spyware FREE

This software does NOT contain any Spyware, Adware or Viruses.

6.1.2 Pros

Free and very fast

6.1.3 Cons

Software must be run manually and updated manually.

6.1.4 Cost

FREE

6.1.5 URL

www.piriform.com/ccleaner



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+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

7 Browser Plugins



7.1 Ad-Block Plus

Ad-block Plus blocks annoying ads on the web. It can block other things like tracking also. With more than 50 million users, it is the world's most popular browser extension. Ad-block Plus is an open source project created by Vladimir Palant in 2006. One of the benefits All n One would see would be increased browsing speeds as the browser will make no attempt to download adverts, so page loading would improve.

7.1.1 Pros

- Blocks Ads – Ad-block Plus blocks all annoying ads on the web by default: video ads on YouTube, Facebook ads, flashy banners, pop-ups, pop-unders and much more.
- Disable Tracking - With every browsing session, there are multiple firms tracking your online activity and browsing history. There are hundreds of ad agencies tracking your every move, but with Ad-block Plus you can easily disable all tracking, and browse the web truly anonymously.
- Disable Malware Domains - Slow startup, popups, and advertisers hijacking your browser: Those are all signs of your computer being infected by malware. Even worse, computers infected by malware open the doors to all kinds of cyber criminality threats. These infected computers can then be used to sending out spam emails or attacking other computers or servers, stealing passwords, social security numbers, personal documents and credit card information.

7.1.2 Cons



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Some adverts can get by on rare occasions like one or two pop-up windows.

7.1.3 Cost

Free

7.1.4 URL

<https://adblockplus.org/en/>

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8 Anti Spyware

8.1 SuperAntiSpyware



SuperAntiSpyware is compatible with 2000, XP Home/Pro, 2003, server 2008, Vista, Windows 7, Windows 8 and Windows 8.1. It is provided as a native 32-bit application and a native 64-bit application.

8.1.1 Pros

1. **Quick, Complete and Custom Scanning** of Hard Drives, Removable Drives, Memory, Registry and more!
2. **Detect and Remove** Spyware, Adware, Malware, Trojans, Dialers, Worms, KeyLoggers, HiJackers and many other types of threats
3. **Trust Items and Exclude Folders** for complete customization of scanning
4. **Repair broken Internet Connections**, Desktops, Registry Editing and more with their unique Repair System!
5. **Updates** check for program and definition updates every 8 hours

Strictly speaking, SUPERAntiSpyware is not designed to be antivirus software. It targets spyware, adware, worms, trojan horses, rootkits, and crimeware, a focus that allows us them to respond quickly to the ever-growing groups of hostile software they address, with new definitions released multiple times a day, and concentrate on the technology that targets the most common threats in the wild.

There are a lot of things that are often called viruses (many trojans, worms, and so on) that SUPERAntiSpyware will remove, but it won't remove many true viruses or boot-sector viruses.

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SUPERAntiSpyware has been designed to be compatible with popular antivirus and antispyware applications such as ESET NOD32, Spybot Search & Destroy, Ad-Aware, AVG, McAfee, Norton, Symantec, Kaspersky, Webroot, PC Tools, Malwarebytes, Avast, Avira and more.

8.1.2 Cons

Requires Manual Updates and will only scan manually

8.1.3 Cost

The version I am reviewing is the Free Version

8.1.4 URL

<http://www.superantispyware.com/>

Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

8.2 Spybot – Search & Destroy



Spybot – Search & Destroy is a set of tools for finding and removing malicious software.

The 'immunization' feature pre-emptively protects the browser against threats. System scans and file scans detect spyware and other malicious software and eradicates it. Spyware is a kind of threat not always detected by anti-virus applications. Spyware silently tracks your Internet activity to create a profile about you. This information can then be used for example by marketing and advertising companies.

Spybot – Search & Destroy is designed for use by either novice or experienced users. Novices can choose to view additional information on the available features while experienced users have additional tools and settings. It is fully functional and free for personal use!

8.2.1 Spybot version 2.0

8.2.1.1 *Details*

Malware Detection & Prevention - Malware Scan & Fix

Rootkits Scan & Fix

Adware and Toolbar Scan & Fix

iPhone® Profile Scan

Network Drives Scan & Fix

System Immunization

Tools -

Start-up Analysis and Editing

Registry Repair

Secure Shredding

Report and Log Creation

OpenSBI Detection Rule Editor

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Improvements from 1.6.2 -

New User Interface
Faster Start-up and Scanning
Whitelisting
Windows Security Centre Integration
Additional Assistance Dialogues

8.2.1.2 *Pros*

Keeps the computer safe with assistance from Malware bytes antimalware and Microsoft Security Essentials

8.2.1.3 *Cons*

Very slow. It takes 28 minutes for a scan of a 1Tb drive where the old 1.x version was much quicker and seemed to do the job just as well.

8.2.1.4 *Cost*

Free for home Use.

For a one year business license for 5 computers it costs - €79.00

8.2.1.5 *URL*

Business Site - <https://www.safer-networking.org/business/business/?product=1>

Home Use - <http://www.safer-networking.org/mirrors/>



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8.2.2 Spybot version 1.6.2

8.2.2.1 *Details*

Adware files, Trojans, Dialers, Browser Hijackers, Key loggers, Rootkits and other malware types can infect your computer. Spybot Free Edition is security software, a classic antispysware, anti-adware removal tool that will detect and remove most of these threats. It will also allow you to fix the Windows Registry inconsistencies, to be more specific - those related to malicious applications that you are installing and adware. It can clean programs and the web usage tracks from your PC. Each time when you browse the Internet, most websites will track you using all kind of "aggressive" tracking cookies. Visited websites, search habits and almost anything related to Internet and many others. Spybot will detect most of these intrusive tracking methods and most of the well-known malware infections and it allows you to remove them. A product for users who need protection against all kinds of online threats.

8.2.2.2 *Pros*

Easy to use and configure

8.2.2.3 *Cons*

Does not run or update automatically.
Can have a few bugs and false positives.

8.2.2.4 *Cost*

Free for private use.
There is no option for business use.

8.2.2.5 *URL*

Home Use - <http://www.safer-networking.org/mirrors16/>

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+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland



8.3 Ad-Aware

In 1999, computer viruses were the rage and been making headlines for years, but the term spyware was new and just beginning to show its menacing face. Computer operators around the world became ever more frustrated as hackers (out for monetary gain) were taking control of their PCs to show advertising, stealing their personal information, and modifying their search results. With the first commercial application, Lavasoft became the pioneer of anti-spyware and remains a leader in the industry today with several antivirus companies using their technology to help combat this ever-growing threat.

8.3.1 Details

Combining anti-spyware with a powerful antivirus, Ad-Aware Free Antivirus+ enhances them with real-time protection, download protection and continuously updated filters against malicious URLs, providing top-of-the-line anti-malware protection for the casual computer user.

8.3.2 Pros

Good detection rate, Fast scans, simple interface and light on resources

8.3.3 Cons

As it includes an anti-virus module as well it may not work well with other anti-virus software that would be installed.

8.3.4 Cost

Free for Home Use - €0

For Office use you get the Ad-aware Personal security – minimum 11 licences' = 1year - €104.50
2year - €154.00

8.3.5 URL

For Home Use – http://download.cnet.com/Ad-Aware-Free-Antivirus/3000-8022_4-10045910.html

For Business Use - http://www.lavasoft.com/products/ad_aware_business_edition.php

Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

9 Server Anti-Virus

9.1 Clamwin Anti-Virus



9.1.1 Details

This free Antivirus program has the lowest resource usage of any program that has been tested, probably because it does not offer real time scanning. It is also the *only* free antivirus program that will run under Windows Server 2003.


9.1.2 Pros

This free Antivirus program has the lowest resource usage of any program that has been tested, probably because it does not offer real time scanning. It is also the *only* free antivirus program that will run under Windows Server 2003.

9.1.3 Cons

The low impact of ClamWin is due at least in part to the fact that there is no real time scanning, so users of ClamWin should be well versed in safe computing. Anything that is downloaded from the net, or even transferred over a network or USB drive should be manually scanned before opening or execution. This is easily done by right clicking the file or folder and choosing "Scan with ClamWin Free Antivirus" from the dropdown menu.

The main problem with ClamWin and why it received only 3.5 stars is the high number of false positives. Make sure you do not use it to delete suspect files! Set ClamWin to "quarantine" any suspect files. Then after completing a scan if you find that one of your programs does not operate correctly, you can restore the files to the original location.



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9.1.4 Cost

This is a free anti-virus solution for Windows server 2003

9.1.5 URL

<http://www.clamwin.com/content/view/71/1/>

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+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
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Ireland

9.2 AVG File Server Network Security for SME.



9.2.1 Platforms

Admin Accounts : Windows Xp/ Vista/ 7/ Server2003/ server 2003 r2/ server2008/ server2008 r2/ server 2012.

Server Accounts : Windows Server 2003 / 2003R2 / 2008 / 2008 R2 / SME2011 / 2012.

9.2.2 Details

- *AntiVirus for Business*

AVG's award-winning server antivirus helps stop, remove and prevent spreading of viruses, worms and trojans within your business network.

- *AVG Anti-Rootkit*

Detects and removes dangerous rootkits that hide malicious software that seeks to take control of your computer.

- *AVG Anti-Spyware*

Keeps your identity safe from the Spyware and Adware that tracks personal information.

- *AVG Smart Scanner*

Only scans your PC when you're not using it. Drops to low-priority mode as soon as you move your mouse or hit a key. To keep scan times to a minimum, it ignores files that it has already scanned and knows are safe.

- *Silent Mode*

Gives employees and IT administrators an additional level of control by allowing unnecessary notifications to be disabled.

- *AVG Turbo Scan*

Dramatically shortens security-scanning times thanks to a smarter scanning sequence that follows the order in which files are saved to the hard drive.

- *AVG Remote Management*

Stay in control of your business endpoint protection software no matter where you are with AVG Remote Administration. Easy to deploy and manage your network antivirus software on your PC, laptops and file servers. Includes active directory integration with enhanced visibility.

9.2.3 Pros

Free phone support, Remote access to allow you to monitor the server's security anywhere, business support

9.2.4 Cons

Minimum purchase is for two licenses.

9.2.5 Cost

File Server Network Security for SME for 2 Computers = 1 year protection = €39.95
2 year protection = €59.95

9.2.6 URL

www.avgtechnologies.com/ie-en/file-server-business-edition

Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

9.3 Kaspersky Small Office Security



9.3.1 Platforms

Windows XP/ Vista/ 7/ 8 /8.1, Windows Server 2012/ 2012 R2/ 2011/ 2008/ 2008 R2.


9.3.2 Details

Because of increased reliance on computing and the Internet, all businesses are more vulnerable to malware and cybercrime attacks against their computers. Valuable business information, online financial transactions and sensitive data are all at risk.

Smaller businesses face the same security risks as large organisations, but often don't have the time or resources to configure and manage complex IT security solutions. Kaspersky Small Office Security delivers business-grade protection technologies that are designed to be simple to install, configure and run. The solution protects your Windows-based PCs & file servers and Android smartphones & tablets... to safeguard your online banking transactions, your business data and the information your customers entrust to you.

Businesses need to do all they can to avoid the financial costs and potential loss of reputation that 'data leakage' incidents can cause. Kaspersky Small Office Security includes powerful protection technologies that help you to secure your own business information and the sensitive information you store about your customers:

- Encrypts your data – so cybercriminals can't read any encrypted data they steal
- Provides backup and restore capabilities – so, if your computer crashes, you'll still be able to access essential business information



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9.3.3 Pros

- **World-Class Security** – multi-layered protection defends your business against the latest malware
- **Internet Protection** – secures your business against phishing attacks and exploits
- **Mobile Device Security** – anti-malware and anti-theft technologies protect Android devices
- **Online Banking Protection** – Safe Money technology adds another layer of security for online banking
- **Business Data protection** – data encryption and local / online backup secure your vital business data, even if a device is lost, stolen or corrupted
- **Password Manager** – generates strong passwords and helps users to maintain security

9.3.4 Cons

Minimum purchase comes with 5 pc, 5 mobile and one server license.

9.3.5 Cost

For 1 year with 5PC'S, 5 Mobile devices and 1 Server = £159.99

9.3.6 URL

<http://www.kaspersky.co.uk/small-office-security>

Phone:
+ 353 1 4294000

Web
www.allnone.ie

Address
48/49 Western Parkway Business Park
Lower Ballymount Road
Dublin 12
Ireland

10 Recommendations

Security is vital for the success of a business. If you have staff who are informed on being security aware online and have some of the following software listed above you greatly increase your chance to avoid getting any kind of malicious software on your machines.

After researching the above software through some hands on testing and reading multiple reviews. I have come to my solution for the below headings.

10.1 Home Use

Anti-Virus Software – Avast! Free 2014 – The reason for my choice in the software is that it's very easy to use and install. It also has added modules which come in very handy like software updater. This tells you if there is any updated version of current software on the computer available which also increases security.

Browser Plugin – Ad-Block Plus – I will suggest this on every machine possible as it block a lot of ads that would appear when browsing the internet which will take temptation away from certain users who would click into these ads and possibly cause a security issue

Anti-Spyware Software – Spybot 1.6.2 Search and destroy – For home use I would recommend this software as it works very well as a complement software to the Anti-virus you would have installed. The one downfall is the scan speeds.

System Optimizer – Ccleaner – For home use this product is great. A very small download which is very easy and quick to use. An average clean could take between 20-40 seconds

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+ 353 1 4294000

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Ireland

10.2 Business Use

Anti-Virus Software – Symantec Endpoint Protection SME Edition 2013 – Symantec have been in the AntiVirus business for a long time and the brand name in itself has become a reputable name in the IT security industry. I recommend this software through its great security features and because you can apply for a certificate to allow potential customers to have confidence in using your service

Browser Plugin – Ad-Block Plus – I will suggest this on every machine possible as it block a lot of ads that would appear when browsing the internet which will take temptation away from certain users who would click into these ads and possibly cause a security issue

Anti-Spyware Software – Spybot 2.0 Search and destroy – This is the most cost effective solution for All n One. This is because we do not require the license from ad aware as we don't need the minimum requirement of 11 licenses. If we needed more licenses I would recommend **ad-aware** as its community and professional reputation for reliability and quality is unrivaled by any other brand.

System Optimizer - CCleaner – For home use this product is great. A very small download which is very easy and quick to use. An average clean could take between 20-40 seconds

10.3 Business Server Use

Anti-Virus Software – AVG File Server Network Security for SME – This is the most cost effective means of security for a business server that is also highly recommended and provided good security.

Browser Plugin – Ad-Block Plus – I will suggest this on every machine possible as it block a lot of ads that would appear when browsing the internet which will take temptation away from certain users who would click into these ads and possibly cause a security issue

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System Optimizer - CCleaner – For home use this product is great. A very small download which is very easy and quick to use. An average clean could take between 20-40 seconds



Company Number: 400703 VAT Registered Number: IE 6420703G
Directors: Nick Wheeler, Chris Thomson, Philip Lacey



Phone:

+ 353 1 4294000

Web

www.allnone.ie

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Lower Ballymount Road
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11 References

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Phone:	Web	Address
+ 353 1 4294000	www.allnone.ie	48/49 Western Parkway Business Park Lower Ballymount Road Dublin 12 Ireland

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