User's Guide

Acronis Privacy Expert Suite 9.0



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Introduction

What is Acronis Privacy Expert Suite?

Acronis Privacy Expert Suite is an integrated software suite that provides **confidentiality and protects** standalone PCs or machines connected to the Internet.

The following capabilities of Acronis Privacy Expert Suite ensure PC confidentiality:

- Clean-up of malicious software that secretly operates on a user's PC
- Proactive protection from malicious software threats
- PC hard disk and Windows partition clean-up of any traces of user actions
- Unwanted pop-up ad blocking for convenient Web browsing
- Guaranteed confidential data destruction on selected hard disks or disk partitions

Unlike other software, Acronis Privacy Expert Suite fully removes evidence of PC usage through the use of guaranteed data destruction methods.

It also increases PC performance by cleaning out temporary files.

Why is it necessary to keep PC work confidential?

Working with a PC creates a number of serious security problems for users:

- While installing software on your PC, you might unknowingly install malware

 malicious programs that secretly change system settings, collect and
 transfer personal information to external addresses, and perform other
 unwanted and uncontrollable actions.
- You have created and deleted many files on your computer. You do not want anyone to view them. But is a deleted file really gone? No! The problem is that deleted files can be easily recovered under the Windows operating system to gain access to information a user would like to conceal.
- Windows and the most widely used browsers, Internet Explorer and Netscape Navigator, provide very weak protection on keeping trace Internet data private.
- While working with a PC, you leave thousands of bytes of evidence showing your actions (records in various system files) that you don't even know about. This could include user names and passwords.
- When replacing your old hard drive with a new, higher-capacity one, you potentially could leave lots of important and confidential information on the old drive that can be recovered, even if you reformat the drive.

Acronis Privacy Expert Suite provides a solution to all of these problems. It assures complete confidentiality of your PC and Internet actions and prevents situations that threaten your computer and general security.

Standards of guaranteed destruction of confidential information

The software offers the guaranteed destruction of confidential information on hard disk drives with the help of special tools.

Acronis methods comply with most national standards:

- American: U.S. Standard, DoD 5220.22-M
- American: NAVSO P-5239-26 (RLL)
- American: NAVSO P-5239-26 (MFM)
- German: VSITR
- Russian: GOST P50739-95

Besides methods corresponding to national standards, Acronis supports predefined methods proposed by widely known and authoritative specialists in the field of information security:

Peter Gutmann's method – data on a hard disk is destroyed with 35 passes

Bruce Schneier's method – data is destroyed with seven passes

The suite also supports simple but fast methods of information destruction that zero all sectors on a single hard disk pass.

Another major feature of this version is the opportunity for you to create your own methods for **data destruction**.

The most popular at the moment is the **U.S. Standard, Department of Defense 5220.22-M** method. Therefore, Acronis Privacy Expert Suite utilizes it by default for all user trace removal operations.

Detailed information on data destruction standards is given in Appendix A «Hard Disk Wiping methods» of this guide.

What's new in Acronis Privacy Expert Suite 9.0?

Acronis Privacy Expert Suite has many new features that make it a fully **integrated software suite**. They include:

- User-friendly and simple wizards that quickly remove all traces of user actions from PCs quickly, efficiently and effectively
- Improved Malicious Software Wizard that scans your computer for malicious software and moves it in the Quarantine folder
- Fully new Malware shield continuous malicious software protection that now offers multiple levels of security
- Daily updated malware definitions base
- **Quarantine** feature enables the user restore and remove malicious objects (files, registry keys etc.), deleted by malicious software removal operations
- Updated Acronis Pop-up Blocker convenient and powerful tool protecting you from importunate pop-up advertising

Additionally, improvements have been made to provide even more convenience.

What Acronis Privacy Expert Suite enables you to clean up

The suite enables you to remove the evidence of your work in any Windows section. It allows you:

- to remove secretly operating malicious software threats using the Malicious Software Wizard
- to protect your PC from malware threats using Malware shield
- to clean the Internet cache
- to delete cookies
- to delete downloaded components
- to clean up the last visited pages and typed URLs lists
- to delete forms autocomplete and password lists for Web sites that require authorization
- to delete e-mail messages in Microsoft Outlook and Microsoft Outlook Express and clean up the contacts and address book lists
- to remove Windows registry backups that retain evidence of a user's work with PCs and the Internet
- to delete temporary files from standard Windows folders
- to delete custom folders/files from any disks connected to a PC
- to clean the Windows Recycle Bin
- to clean hard disk free space
- to clean the Windows prefetch directory
- to clean system passwords
- to clean the opened/saved files history
- to remove evidence from the find files list and find computers list
- to block unwanted pop-up ads using Acronis Pop-up Blocker
- to destroy securely all data on hard disks or partitions using Acronis Drive Cleanser, if needed
- to clean up the Windows paging/swap file using Paging File Cleaner

Acronis Privacy Expert Suite **permanently** removes evidence of user PC activity. To clean up a PC, it uses **strict methods for guaranteed confidential data destruction** that meet or exceed most national/state standards (see Appendix A «Hard Disk Wiping methods» for details).

How to find information you need in this guide:

This guide contains the following chapters:

- Chapter 1«Installing Acronis Privacy Expert Suite» contains detailed information about the installation of this software.
- Chapter 2 «Working with Acronis Privacy Expert Suite» describes common principles and settings.
- Chapter 3 «Malicious software removal and Malware shield» describes malicious software removal and Malware shield settings.

- Chapter 4«Internet Clean-up» describes Web and e-mail traces removal.
- Chapter 5« System Clean-up» offers detailed information on how to clean up your Windows system of all user traces
- Chapter 6«Application Traces Clean-up» describes how to remove application usage traces from Windows using the Application Traces Clean-up Wizard.
- Chapter 7«My privacy tools» provides general information on additional tools and wizards that provide the means to completely delete data from your PC, either with the suite installed, or just from a bootable diskette.
- Chapter 8«Acronis Pop-up Blocker» describes how to use the Acronis Popup Blocker.
- 0«Options
- Acronis Drive Cleanser» provides tools for guaranteed data destruction on selected drives or partitions.
- Appendix A«Hard Disk Wiping methods» contains more detailed information about methods of guaranteed confidential data destruction on a PC hard disk.
- Appendix B «Malware threats glossary» contains supplemental information on the most popular spyware and spyware parasites that Acronis Privacy Expert Suite protects you from.

System requirements

To take full advantage of Acronis Privacy Expert Suite, you should have:

- a PC-compatible computer with a Pentium CPU or equivalent
- 32 MB RAM
- a floppy or a CD-RW drive
- a mouse (recommended)
- Microsoft Windows 98/Me/NT/2000/XP/ or
- Microsoft Windows NT Server/2000 Server/2000 Advanced Server/Windows 2003 Server
- Microsoft Internet Explorer 4.0 or higher for correct Pop-up Blocker operation.

Software use conditions

The conditions for use of Acronis Privacy Expert Suite are listed in the supplied «License Agreement». The registration card that came with the software is your proof that you legally purchased the suite. Each registration card has a unique number.

Based on current legislation, the «License Agreement» is considered as a contract between the user and software vendor. Violation of the contract may lead to prosecution.

Illegal use or distribution of software is a violation of the law and will be prosecuted.

Technical support

Users who have legally purchased and registered their copy of Acronis Privacy Expert Suite will receive free technical support from Acronis. If you have installation or working problems that you can't solve by yourself using this manual and the readme.txt file, e-mail the technical support team. You will need to provide the serial number of your Acronis Privacy Expert Suite copy bundled with the program.

Before you do this, you will have to register your copy at <u>http://www.acronis.com/homecomputing/my/products/registration/</u>

Support URL: <u>http://www.acronis.com/homecomputing/my/support/</u>

Chapter 1. Installing Acronis Privacy Expert Suite

1.1 Installing the program

To install Acronis Privacy Expert Suite:

- 1. Run the setup file.
- 2. In the Install Menu, click on the Install Acronis Privacy Expert Suite.
- 3. Read and accept the terms of the license agreement, then click **Next**.
- 4. Enter the serial number provided with product.
- 5. In the **Choose setup type** window, choose setup type:
 - **Typical** installs most common program features (recommended for most users).
 - Custom allows users to choose program features to install and select a location for setup (recommended for advanced users). If you pick Custom, you can select components to install. You can even install only one program component and it will work as a standalone program (for example, you can install only the Acronis Pop-up Blocker to block the annoying pop-ups).
 - **Complete** all program features will be installed (requires the most disk space).
- 6. In the **Select Administrators Options** window, choose Install for all users or Install for the currently logged-in user, then click **Next**.
- 7. Click **Proceed** to begin installation. To make changes in the setup, use **Back** and **Next** buttons.
- 8. After installation, reboot your PC. If you installed program from the installation CD, please, do not forget to remove this CD from the drive before you restart your PC to avoid booting from this CD.



Acronis Privacy Expert Suite install menu



If you run the Acronis Privacy Expert Suite under Windows 98 or Windows NT 4.0, then make sure that Microsoft Data Access Components (MDAC) version 2.5 is installed on your computer. To install MDAC on your computer, run the "mdac.exe" file that could be found on your PC in the Acronis Privacy Expert Suite installation folder. For example, "C:\Program Files\Acronis\PrivacyExpert\mdac.exe

Acronis Privacy Expert Suite also supports the Microsoft Installer utility (msiexec.exe) with all its commands.

1.2 Recovering Acronis Privacy Expert Suite

If the Acronis Privacy Expert Suite ceased running or produces errors, its files might be corrupted. To repair this problem, you first have to recover the program. To do this run the Acronis Privacy Expert Suite installer again. It will detect Acronis Privacy Expert Suite on your computer and will ask you if you want to repair or remove it.

1.3 Acronis Privacy Expert Suite extracting

Advanced users may save the .msi (Microsoft Installer) file needed for the installation of Acronis Privacy Expert Suite on a local or network drive for the further manual installation of the program.

To do this:

- 1. In the install menu, right click on the Install Acronis Privacy Expert Suite and select Extract
- 2. Select the location where you want to save the setup file and press the **Save** button
- 3. The following .msi file will be extracted: AcronisPrivacyExpert.msi

1.4 Removing the software

To remove Acronis Privacy Expert Suite from your PC, select Start \rightarrow Settings \rightarrow Control Panel \rightarrow Add or Remove Programs \rightarrow Acronis Privacy Expert Suite \rightarrow Remove. You will see a dialog to confirm the program removal. Click Yes to confirm and Acronis Privacy Expert Suite will be completely removed. You may have to reboot your computer afterwards to complete the task.

Chapter 2. Working with Acronis Privacy Expert Suite

2.1 Getting started

The Acronis Privacy Expert Suite user interface features standard Windows XP icon graphical user interface (GUI) elements.

2.2 Working in the main program window

Work takes place in the main program window that is invoked after the suite is launched by selecting Start \rightarrow All programs \rightarrow Acronis \rightarrow PrivacyExpert \rightarrow Acronis Privacy Expert Suite or double-clicking the respective desktop shortcut.



Acronis Privacy Expert Suite main window

Users can choose between two window layouts. By default, the program offers the standard Category View traditional for Windows XP, in which all functional elements are grouped by their category. If needed, a user can switch to the Classic View that is more familiar to users of previous versions of Acronis Privacy Expert Suite. To do this, select **View settings** \rightarrow **Switch to classic view**.

In the main program window, you will see two major groups of PC cleaning tools.

The Malicious software group includes:

 Malicious Software Removal – removes malware, including applications and spyware that threaten information confidentiality by operating without the user's knowledge.

The **Privacy** group includes:

 Internet Clean-up – completely removes traces of Internet and e-mail usage.

- System Clean-up guaranteed to clean Windows components of any traces of user work.
- Application Traces Clean-up removes traces of application usage.
- My Privacy Tools provides additional means of enforcing user data confidentiality, Acronis Drive Cleanser that completely clean up user hard disk without the possibility of recovering information (see 0«Options
- Acronis Drive Cleanser»).

Use **Go back**, **Go forward** and **Home Toolbar** buttons to **switch** between categories and to **return to the main program window**. You can also return to the main program window using **Other categories** Sidebar button.

2.3 Basic operation principles

In Acronis Privacy Expert Suite, the primary operations are performed using user-friendly **wizards**:

- Malicious Software Wizard removes unwanted malware and spyware
- System Clean-up Wizard completely cleans Windows components of traces of user work, including temporary files, recently used files list, file search string, Windows Recycle Bin, etc
- Internet Clean-up Wizard quickly removes traces of Internet and e-mail usage
- Application Traces Clean-up Wizard removes traces of application usage.

All wizards are under user control. Using wizards, you can clean either the entire category or any of its components.

If you need to:

- Check your PC for malicious software and remove it if found, select Malicious Software Removal in the Malicious software group in the main program window
- Remove all traces of your work on the Internet and e-mail, select Internet Clean-up in the Privacy group in the main program window
- Clean Windows components of any traces of user work, select System Clean-up in the Privacy group in the main program window
- Remove application usage traces from your PC, select Application Traces
 Clean-up in the Privacy group in the main program window
- Additionally, the My Privacy Tools category offers you a number of extra PC clean-up and protection tools
- Block unwanted pop-ups that appear when you load certain Web sites, use Acronis Pop-up Blocker (from your Internet Explorer session).
- Clean up the swap file, run Paging File Cleaner

- Securely remove data in the selected partition and/or disk, run Acronis Drive Cleanser
- Remove selected files or folders, so they can't be recovered, run File Shredder

For more information on wizard usage and settings, see the respective chapters of this guide.

2.4 Acronis Privacy Expert Suite options

If you regularly use Acronis Privacy Expert Suite, you can provide custom preferences for typical situations.

The **Options** window can be invoked in different ways:

- From the **sidebar** of the Acronis Privacy Expert Suite main window
- From **Settings** of the main menu
- By clicking the **Options** icon on the **Toolbar**

2.4.1 General options

The **General** section contains the following items:

- Start Clean-up/Removal Wizard if you flag this item, Acronis Privacy Expert Suite will ask each time before it runs the clean-up wizard for the given component or the entire category. Otherwise, the clean-up will be performed automatically without user confirmation.
- Show Summary if you flag this item, the program will show you the clean-up summary after each session.
- Treat shortcuts as separate files if you flag this item, the shortcut target will be left untouched. Otherwise, target files will be deleted along with the shortcuts.

2.4.2 Clean-up Options

In the Clean-up Options group, you can set the **common data destruction method** that will be used by default for any PC clean-up operation, independently of category.

In this section, you will see all data destruction methods available in Acronis Privacy Expert Suite by clicking your mouse on the drop-down list in the righthand part of the editor.

If you need to ensure:

- maximum security while destroying files, select Peter Gutmann's method (35 data destruction cycles), but please keep in mind that this method requires the greatest amount of time to complete the task
- mid-level security at an average speed of clean-up, select VSITR or Bruce Schneier's method (seven data destruction cycles)

Working with Acronis Privacy Expert Suite

 fast PC clean-up with limited security in mind, select any methods that overwrite in a single pass, two passes or three passes

If you haven't set the **common data destruction method** yourself, Acronis Privacy Expert Suite will default to the most popular and generally accepted one: **U.S. Standard, DoD 5220.22-M** algorithm (See detailed information in Appendix A«Hard Disk Wiping methods»).

2.4.3 Scheduled tasks

The **scheduled clean-up** (see section 0 «Scheduling tasks») might lead to errors if data to be deleted is used by other programs.

You can set up Acronis Privacy Expert Suite for such situations by selecting from the following variants:

- Ignore
- Retry
- Cancel
- Ask user

2.4.4 Explorer enhancements

Acronis Privacy Expert Suite provides an easy way to delete files quickly and clean up folders through the Windows Explorer context menu.

To enable these options and to add the context menu commands, mark the **Enable Explorer Enhancements** check-box.

The context menu also allows you to clean up the **Windows Recycle Bin** securely. For that matter, **clean-up preferences** can not only include the data destruction method, but also the destruction method wildcard. Scheduling tasks

Each PC clean-up variant of Acronis Privacy Expert Suite can be executed either **manually or automatically** as scheduled.

Having set PC clean-up as a daily procedure to be performed, for example, at the end of a workday before powering off the PC, you can be sure that all evidence of your PC and Internet activity will be removed each day.

Acronis Privacy Expert Suite features a built-in scheduler.

2.4.5 Invoking the scheduler

To set up the clean-up schedule, click the **Schedule task** sidebar button in the Acronis Privacy Expert Suite main window.

Having invoked the **Scheduler**, you will need to select a clean-up variant to perform at the selected time.

You can:

- Schedule any Quick Task to perform complete or particular clean-up, including Entire PC Clean-up, Malicious software Removal, Internet Clean-up, System Clean-up and Application Traces Clean-up
- Schedule automatic clean-up of any PC components

Schedule Task Wizard	X
Start Parameters Select when you would like this task to	be started.
Perform this task:	
Do not start <u>a</u> utomatically	When my computer starts
O Daily	🔿 When I log on
<u> </u>	When my computer shuts down
	O When I log off
O One time only	Onc <u>e</u> a day
Description Do not start the task automatically. N	ote that you will be able to start this task manually. $<\underline{Back}$ <u>Next</u> > <u>Cancel</u> .

Scheduler

2.4.6 Scheduled tasks preferences

Having selected the clean-up variant, you will need to set its schedule:

You can select the following variants of automatic clean-up launch:

- Do not start automatically
- Daily, according to the schedule with the ability to select only workdays or once every few days
- Weekly, according to the schedule with the ability to select particular days, such as Tuesday and Friday, or once every two or three weeks, etc
- Monthly, according to the schedule on the time and day set; The suite supports clean-up on the <first, second, third, fourth, last> <day of the week> (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday), for example
- One time only, at a specific time (hours:minutes) on a particular day (month/day/year)

- When my computer starts
- When I log on
- When my computer shuts down
- When I log off

Having selected any variant, click <u>Next</u> to set additional parameters on the second wizard page.

The scheduled clean-up might lead to errors if data to be deleted is used by other programs.

You can set up Acronis Privacy Expert Suite for such situations. See section **Global** settings \rightarrow Scheduled tasks.

2.5 Using the Log

The **Log** keeps track of all actions performed by Acronis Privacy Expert Suite. It can provide you with a complete history and reasons for any problems that have occurred.

Log View						
Log View provides an ability to analyze ar process.	nd troubleshoot pos:	ible prot	olems encounter	ed during cle	ean-up	
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Tuesday, January 11, 2005 1:11:	# Туре	Modul	e Error (Code)	Date	Time	Messa
😼 Wednesday, January 12, 2005 1	Wednesday,	Januar	y 26, 2005 10	26:37 AM		
🔲 Wednesday, January 12, 2005 1	1 (1) Information	100	0 (0x640000)	1/26/2005	10:19:17 AM	Started
🔲 Wednesday, January 12, 2005 1	2 (i) Information	100	0 (0x640000)	1/26/2005	10:19:34 AM	Started
🔲 Wednesday, January 12, 2005 1	3 (i) Information	100	0 (0×640000)	1/26/2005	10:26:37 AM	Finishe
Wednesday, January 12, 2005 1	4 (i) Information	100	0 (0x640000)	1/26/2005	10:26:37 AM	Task is
Wednesday, January 12, 2005 1						
Wednesday, January 12, 2005 1						
U Wednesday, January 12, 2005 1	-					
Wednesday, January 12, 2005 1	<	1	110			>
Wednesday, January 12, 2005 1	1. (i) Informati	00				$\overline{\mathbf{x}}$
Wednesday, January 12, 2005 1	1. V Income					-
Tuesday, January 25, 2005 6:41:	Wednesday, Ja	nuary 2	26, 2005 10:19	:17 AM		
Wednesday, January 25, 2005 6.41	Details:					
weunesday, January 20, 2003 1	Started task: Red	ycle Bin	Clean-up			

Log view window

Log settings enables you to keep track with different degrees of detail. You can select one of the following variants:

- Everything
- Important information error and malware messages

Nothing



Log settings

Chapter 3. Malicious software removal and Malware shield

There are many programs that, once on your PC, start working without your knowledge. Such software can do such things as collect information or change user settings for the Internet or your system. These programs are called **malicious software** or **malware**. For more information on the main malware types, see Appendix B of this guide.

Acronis Privacy Expert Suite enables you to completely clean your PC of malicious software and protect it from future intrusions.

How malware gets on your PC

One of the most common ways that malicious software gets on your PC is from new software installations, in particular freeware and shareware. When you install such applications, they can implement software modules that collect information on Web sites you visit, your PC configuration, etc.

Also malicious software can penetrate your computer via e-mail, for example, when you open e-mail attachments. In this way, malware is similar to a virus, but your antivirus software might not find it.

Another common source of malicious software is peer-to-peer networks, gaming portals and other Web services.

Sometimes malicious software is installed by commercial applications whose makers want to collect additional information about users, their habits and preferences.

Poorly secured networks, network shares and software vulnerability are the elements, making easier for malicious software to get on a computer and spread over the network.

How to recognize malware?

Though in many cases malicious software works without users' knowledge, there are signs that you should watch for:

- Hard drive LED is blinking even when no programs are run or documents open
- Your PC receives and sends unknown information via the Internet though you aren't using a Web browser or e-mail client
- The home page setting of your browser has changed without your consent
- When you work with certain programs or visit certain Web sites, you see ads or pop-ups

If you notice some of these activities, you need to run Acronis Privacy Expert Suite to find and eliminate malicious software performing unauthorized operations on your PC.

If you need to:

- Find and remove any type of malicious software from your PC, run Malicious Software Removal (see section 3.1.1 «Removing malware with the Malicious Software Wizard»)
- Prevent malware from getting on your PC, enable and set up Malware shield (see section 3.2 «Malicious software protection»)

3.1 Malicious software removal

Using Acronis Privacy Expert Suite, you can find and remove malicious software from your PC. To do this, select and click **Malicious software removal** in the main program window.

After that, you can either initiate malicious software removal with the **Malicious Software Wizard** at once, or **configure** this wizard.

With the **Configurate Malicious Software Removal Options**, you can select the malicious software type to clean up. By default, it is set to remove any type of malicious software.

Also you can **Update spyware definitions** and remove/recover malicious objects stored in **Quarantine**.

3.1.1 Removing malware with the Malicious Software Wizard

 To run the Malicious Software Wizard, select Remove Malicious Software Now in the Malicious software Removal window.



Malicious Software Wizard

After the wizard is run, your PC will be checked for malicious software. The results will be shown in the righthand part of the wizard window. You will see what malicious software applications are found and which files and registry keys are related to them:



Malicious software scanning results

Information about particular malicious software applications will be available in the lefthand part of the wizard window after you select malicious software from the list with a mouse.

All malicious software found will be automatically checked for removal. If you, want to leave some malicious applications or their components, uncheck them in the resulting list. (Some common applications are sometimes identified as malware. This option gives you the ability to keep those programs and/or settings.)

After you finish forming the list of malicious software to be removed, click **Next**. In the next window, you will see the final script of malicious software removal operations.



Malicious software removal operations final script

To execute the script, click **Proceed**.

After malicious software clean-up is finished, you will see a summary that will state the amount of malicious software applications removed.



In Windows **normal** mode some malicious applications are usually stay hidden so you can not see them and track their work. Therefore, we recommend you to launch the Malicious Software Wizard in Windows **safe** mode periodically in addition to scanning malware in normal mode. To run Windows in safe mode press **<F8>** key after your computer starts (restarts) but before Windows launches.

3.1.2 Setting up the Malicious Software Wizard

To set up the Malicious Software Wizard, select Configure Malware Removal Options in the Malware Removal window.

Selecting scanning mode

There are two modes of searching for malware:

- Smart scanning mode used by default. In this case, the suite searches for malware only in the most likely locations, including system, user profile and temporary files folders, as well as in the system registry. Select this mode for a quick PC check.
- Deep scanning mode an extended algorithm for malware scanning. In this case, all folders on all PC hard drives are searched. This variant could take much more time depending on the capacity of your hard disks.

Configure Malicious Software Removal Wizard	
Scan Mode Choose threats scan mode	×ĭ
Choose the malicious software scanning procedure mode:	in the
<pre></pre>	

Malicious software scanning modes

Setting up Deep scanning mode

If you selected **Deep scanning mode**, you can manually select disks and folders in which to search for malware:

Configure Malicious Software Removal Wizard				
Select Folders Manually Please select manually folders to be scanned du procedure.	ring the malicious software removal	Rĭ		
My Computer Josephile Josephile				
	<pre><gack next="">ancel</gack></pre>]		

Disk and folders selection

Saving settings

All Malicious Software Wizard settings will be active until you change them.

3.2 Malicious software protection

Acronis Privacy Expert Suite not only allows you to remove malicious software, but also prevent it from getting on your PC in the first place. This is provided by

Acronis Malware shield — a special tool that monitors your system for suspicious applications and components.

3.2.1 Enabling Malware shield

To enable Malware shield, select Start \rightarrow Programs \rightarrow Acronis \rightarrow Malware shield \rightarrow Acronis Malware shield.

After Malware shield is enabled, you will see its icon in the system tray.

To disable Malware shield right click the **Acronis Malware shield** icon in the system tray and select **Disable Acronis Malware shield**.

3.2.2 Setting up Malware shield

You can configure the Malware shield settings. To do so, right click on the **Acronis Malware shield** icon in the system tray and select **Acronis Malware Shield Options**.

Setting up the system protection level

You can set up the Protection Level monitoring your system for malicious software and applications:

- Low protection level monitors only all running processes and notifies you if a process is described in malicious software database.
- Medium protection level monitors all running processes and notifies you if a process is described in malicious software database. It also prevents suspicious processes from launching at Windows startup, prevents Web browser settings from hijacking and protects ActiveX components settings.
- **High** protection level is most secure. It includes all Medium level protections and also protects all processes and Windows system files. This is the recommended setting for experienced users.

Acronis Personal Shield	
Acronis Personal Shield Set the Protection Level	for monitoring your system for suspicious applications and components.
Configure Personal Shield	Set the system protection level: Protection Level High Medium Medium level summary Medium Medium Medium Medium Low Low
Acronis Compute with confidence www.acronis.com	You have no unresolved alerts. Click Customize to set the custom protection level and to view configured rules. OK Cancel

System protection level

To view and/or customize options of the selected protection level click **Options**.

General settings

In the **General settings** window, you can enable Acronis Malware Shield protecting your system and running at system startup.

Acronis Malware Shield Op	tions 🔀
Acronis Malware Shield Configure the program's gen protection rules.	eral settings, specify protected items, and view work history and configured
General settings Process analyzing Registry protection Process protection Files protection Process protection Files protection History	General settings ✓ Run at startup Acronis Malware Shield will be automatically run each time your system starts up. ✓ Enable Acronis Malware Shield Enable Acronis Malware Shield to proactively protect against malicious software threats.
	OK Cancel Apply

General settings window

Having set up all settings, you can apply changes by clicking **Apply** button.

Use **Cancel** button to if you do not want changes to be applied.

Process analyzing

You can enable/disable analyzing of the running processes by checking the corresponding parameter.



Process analyzing

Registry protection

In the **Registry protection** section, you can enable/disable:

- Browser settings protection from hijacking by suspicious applications
- Preventing suspicious software and processes from launching at system startup
- Protection of the ActiveX components settings
- Preventing application from sharing resources or changing settings of shared resources



Registry protection

Memory protection

In the Memory protection section, you can enable/disable:

- Process' thread access protection from other processes
- Process' virtual memory protection from trying to get access to any other process memory
- Process terminating protection



Process protection

File protection

In the **File protection** section, you can enable/disable protection your system files, critical to Windows work.

Specified rules

The **Specified rules** section contains a list of protection rules that you specified. You can remove selected rule by clicking **Remove** or use **Clear all** to remove all entries.



Specified rules

History

The **History** section contents a list of all events occurred, so you can view and analyze it. Use **Clear all** button to remove all list entries.

Configure the program's get protection rules.	neral settings, specify protected	d items, and view work history and configured	9
General settings Process analyzing Registry protection Process protection	History History provides a list of eve included in the History list.	nts that have occurred. Both allowed and denied activiti	es ar
Files protection	Date	Application	
Specified rules	Wed Nov 30 17:09:11 2005	C:\Program Files\Corel\Corel Graphics 12\Programs\Co	elD
HISTORY	Wed Nov 30 17:09:14 2005	C:\Program Files\Internet Explorer\iexplore.exe	
	Wed Nov 30 17:09:17 2005	C:\Program Files\Internet Explorer\iexplore.exe	-
	Wed Nov 30 17:09:17 2005	C:\Program Files\Internet Explorer\iexplore.exe	
	Wed Nov 30 17:09:18 2005	C:\Program Files\Internet Explorer\iexplore.exe	
	Wed Nov 30 17:09:18 2005	C:\Program Files\Internet Explorer\iexplore.exe	
	Wed Nov 30 17:09:18 2005	C:\Program Files\Internet Explorer\iexplore.exe	
	Wed Nov 30 17:09:21 2005	C:\Program Files\Internet Explorer\iexplore.exe	
	Wed Nov 30 17:09:36 2005	C:\Program Files\Corel\Corel Graphics 12\Programs\Cor	elD ,
	<		>
<		lear a	all

History window

Show alerts

You can select an unresolved alert (or group of alerts), view its description and choose an action to be taken with it.

To extend the chosen action to all other alerts of the same activity type check the **Propagate this action to all alerts of the same activity type** parameter.

You can also choose how to apply specified action (Once, This time and specify the permanent rule or This time and always until the process is restarted).

ronis Personal Shiel	d Alert
cronis Personal Shield View and resolve the al action to perform with i for this alert.	erts. Select an alert (or group of alerts) in the list, view its description, and choose an After that select either to perform this action for this instance only or to create a rule
Unresolved alerts	Alert description Prevent browser hijacking Process C:\Program Files\Internet Explorer\iexplore.exe (PID = 3500) is trying to so value key HKCU\Software\Microsoft\Internet Explorer\Main Window_Placemen
	Select an action to take for the selected alerts
	Propagate this action to all alerts of the same activity type Apply the specified action Once
Select All	This time and specify a permanent <u>rule</u> This time and always <u>until</u> this process is restarted

Alert window

You can close Alert window, outing off rule creation. As a result the Malware Shield's pictogram in the system tray will start to blink, notifying that you have unresolved alerts. To open **Malware Shield Alert** window double click on the Malware Shield's pictogram in the system tray.

3.3 Quarantine

The **Malicious Software Wizard** removes all the malicious programs from the system and stores them in the special protected directory called **Quarantine**. You can either permanently delete the removed objects (files, registry keys etc.) from Quarantine or restore them if needed (fore example, if your system works unstable as a result of malware removal). Besides, it may be useful to look through the list of deleted objects and obtain the detailed information about Acronis Privacy Expert operation on your PC.

Select the **Quarantine** item in the **Malicious Software Removal** category to launch **Quarantine wizard**.

On the **Choose an operation** window you need to choose an action (**Restore** or **Clear**) to be taken on the Quarantine folder's elements.

The next window contains a list of elements moved to the quarantine folder and sorted by date. Check the necessary elements and click **Next** to proceed with their recovery/removal.



Restoring items from the Quarantine



If the system configuration has been changed since the restored objects were placed to the Quarantine, these objects may be inconsistent with the new system configuration. Therefore, it is recommended that you think twice and use restoration feature in a short time after malicious software removal.

3.4 Malware definitions updates

Offering you timely and reliable protection from new malware released as often as every day, Acronis Privacy Expert launches the special **Malware Web Updates** service.

It enables users to obtain the most up-to-date information and malware protection from Acronis website.

When you purchase Acronis Privacy Expert Suite, you also subscribe to malware definitions updates. When the subscription period is over, you can renew your right to use **Malware Web Updates** service at Acronis website.

3.4.1 Product registration

Remember that malware definitions updates service is available for registered users of Acronis Privacy Expert Suite only!

You can register you copy of the program at Acronis website following this link:

http://www.acronis.com/homecomputing/my/products/registration/

Your login is your valid email address.

Once you register your copy of the Acronis Privacy Expert Suite on the Acronis website, you will not have to enter any additional user information to receive Malware Definitions Updates.

3.4.2 Running Malicious Software Definitions Updates Wizard

You can run Malware Definitions Updates Wizard the following ways:

- By clicking Web updates on sidebar of Acronis Privacy Expert Suite main window
- By selecting **Settings** → **Web** updates in the menu
- By clicking **Web updates** on the toolbar.

Malicious Software Defini	itions Updates Wizard 🛛 🔀
Malware Web Updates	Welcome to the Malicious Software Definitions Updates Wizard! This wizard will guide you through the malicious software definitions update procedure. Keeping you up to date for the definitions is crucial to help protect your system against new emerging malicious threats.
PACTORS Campute with confidence www.acronis.com	Please press the Next button to continue.

Malware definitions update wizard

3.4.3 Selecting update mode

Having run **Malicious Definitions Updates Wizard**, you can select the update mode: either manual, or scheduled automatic:

- To update malware definitions right now, select Update malware definitions now
- To automatically update malware definitions on a suitable schedule, select Update automatically.



Selecting update mode window

3.4.4 Setting the schedule

If you selected automatic updates, you will be asked to set the suitable schedule.

The following variants are available:

- Do not start automatically
- Daily, according to the schedule with the ability to select only workdays or once every few days
- Weekly, according to the schedule with the ability to select particular days, such as Tuesday and Friday, or once every two or three weeks, etc
- Monthly, according to the schedule on the time and day set; The suite supports clean-up on the <first, second, third, fourth, last> <day of the week> (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday), for example
- **One time only**, at a specific time (hours:minutes) on a particular day (month/day/year)
- When my computer starts
- When I log on
- When my computer shuts down
- When I log off

Having selected any variant, click <u>Next</u> to set additional parameters on the second wizard page.
Chapter 4. Internet Clean-up

4.1 General information

The greatest threat to the privacy of your work has the Web as its source. You have read about it in the Introduction, which also describes system sections where traces of user actions are stored. The cache, cookies, visited pages and history form autocomplete lists and passwords are stored in different places on your system, depending on your browser. You can clean up all of them with Acronis Privacy Expert Suite. Internet clean-up works with Microsoft Internet Explorer and Mozilla Firefox browsers.

Internet Clean-up.

The Internet Clean-up category enables you to:

- Completely remove all traces of your Web and e-mail actions using the Internet Clean-up Wizard
- Clean up separate system components related to Web actions, i.e. clean up visited pages list, empty cache, etc
- Fine-tune the Internet Clean-up Wizard to suit your needs

4.2 Using the Internet Clean-up Wizard

The Internet Clean-up Wizard enables you to completely remove all traces of your Web and e-mail actions.

It enables you to:

- Clean up Temporary Internet files that are stored on your PC hard disk while you browse the Web to speed up loading next time you visit the same page
- Remove cookies, small text files created on your PC when you visit a Web site. Such cookies might contain user name and other information entered during, say, registration at the Web site
- Remove downloaded files (ActiveX elements) that can be installed secretly while you browse Web sites. ActiveX elements enable Web pages to act like applications and dynamically change content. At the same time, ActiveX elements might be used maliciously to gain access to your PC
- Clean up visited Web sites history
- Clean up Web site addresses typed in the address field
- Remove form autocomplete lists stored by the browser to speed up filling various forms
- Remove **passwords** stored by a browser to speed up authorization on Web sites

- Securely remove e-mail messages (from Microsoft Outlook and Outlook Express)
- Clean up the contacts and address book of your e-mail client

Internet Clean-up Wizar	d 🔀
Clean-up	Welcome to the Internet Clean-up Wizard! This wizard will guide you through the secure data destruction procedure for all available components in this task:
No.	Internet Clean-up Cleans your Internet visit and surfing traces.
Um	Click <u>here</u> if you want to change the clean-up settings before proceeding
PACIONIS Compute with confidence www.acronis.com	All actions with your private data will not occur until you press the Proceed button on the last page of this wizard. Please press the Scan button to continue.
	< Back Scan Cancel

Internet clean-up wizard

After you run the **wizard**, it will search your PC for traces of any Web actions. The search results will be shown in the righthand part of the **wizard window**.

After the search is finished, you will be able to manually select elements to remove:

Internet Clean-up



Preview Internet data to clean

After you select the elements to remove, you can run the clean-up.

4.3 Internet Clean-up Wizard Settings

To set up the Internet Clean-up Wizard, select Configure Clean-up Options in the Internet Clean-up window.

To enable or disable any **Internet Clean-up** component, set or remove its **Enable this component** flag.

In the **Internet Clean-up Wizard** settings window, you can also set clean-up parameters for each system component. Some of these parameters are related to all components.

4.3.1 «Data Destruction Method» settings

This setting defines the method of guaranteed data destruction to use to clean up a given component.

By default, all components that have such a setting have it set to **Use common method** (See section 2.4.2 «Clean-up Options» of this guide»).

If you need to set a custom method of data destruction for a component, choose **Use custom method for this component** and then select your preference.

4.3.2 «Internet Browsers» setting

Acronis Privacy Expert Suite automatically locates all installed and supported browsers and removes any of their Web activity traces by default.

If you have Internet Explorer installed, the structures to clean belong only to the currently logged-on user.



Netscape Navigator and Mozilla support personal profiles. Without additional settings, Acronis Privacy Expert Suite cleans either the «default profile» (if it is the only one), or the profile of the currently logged-on user.

If you need to clean up only one browser:

- 1. Set the checkbox near its name only (for example, Internet Explorer), unchecking all other boxes.
- 2. If you use a version of Netscape Navigator (or Mozilla), you should also select a personal profile (by clicking **Profiles...** link).

4.3.3 «Address» setting

The «Address» setting is meant for cleaning up the Internet cache, cookies, last visited pages, typed URLs, and passwords).

Internet Clean-up



Address settings

You can also enter any full or partial Internet addresses separated by a semicolon as a value of the «Address» setting; for example:

*worldsoccer.com; *formula1.com;

All files downloaded from sites fully or partially corresponding to at least one of the addresses entered will be removed.



Attention! The length of a search string with full or partial Internet addresses is almost infinite! You can enter any number of addresses like *worldsoccer.com or *formula1.com separated by a semicolon.

If you need to:

1. clean up the Internet cache (last visited pages list) of **all** files (lists, elements) downloaded from a **specific** Internet **address** (site), enter addresses or their parts separated by a semicolon; for example, like:

CompanyA;*XYZ123*

As a result, all files downloaded from <u>www.Company.com</u>, <u>www.xyz123.com</u> will be deleted.

 clean up the Internet cache of only specific file types downloaded from a specific Internet address (site), enter addresses separated by a semicolon; for example, like:

companya.jpg;*companya*.gif;*xyz123*.jpg;*xyz123*.gif

As a result, only *.jpg, *.gif files will be deleted, while *.html files, for example, remain in the cache.

Entering the Internet addresses list, you can browse files (visited pages) selected according to the list. To do this, click Show URLs. You will see the window with selected addresses. They will be deleted during the selected component clean-up.

If you want to **cancel** the deletion of any address in this list, uncheck the corresponding box.

4.3.4 «File» settings

The «Files» setting **provides** temporary **filenames to clean with** Acronis Privacy Expert Suite and can be used with a search string.

 Internet Clean-up Internet Components Internet Cache Internet Browsers Data Destruction Method Address Cookies Downloaded Components Files Last Visited Pages Typed URLs Internet Passwords Forms AutoComplete E-mail Contacts 	Files Search by the criteria below. Enter all or part of the file name: *.doc Press the Show Files button to see files to be cleaned according to your mask. Show Files
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Files settings

Under the Windows operating system, a search string can represent a full or partial filename. A search string can contain any alphanumeric symbols, including **comma**, ***** and **?** symbols, and can have values similar to the following:

- *.* to delete all files from the Recycle Bin with any file names and extensions
- *.doc to delete files with specific extension a Microsoft document file in this case
- read*.* to delete all files with any extensions, and names beginning with «read»
- read?.* to delete all files having five-letter names and any extensions, names beginning with «read»; the fifth letter is random
- The last search string, for example, will result in removal of read1.txt, ready.doc files, but readyness.txt will remain with its longer name (excluding the extension)

forums, etc.

You can enter several different search strings separated by a semicolon; for example:

*.bak; *.tmp; *.~~~;

All files with names corresponding to at least one of the search strings will be deleted.



Attention! The length of a search string with full or partial filenames is almost infinite! You can enter any number of filenames or their parts like *.tmp, read?.* separated by a semicolon.

4.3.5 «Data filter» settings

This setting will enable you to set clean-up parameters for certain autocompleted form fields. For example, you can set it so each time the **Internet Clean-up Wizard** is run, fields with your personal information (name, surname, e-mail address, etc.) will be cleaned up.

You can use * and ? wildcards to set this parameter:

john@* - clean up all e-mail addresses that contain 'john' before the @ sign.

4.3.6 «E-mail clients» settings

Here you can specify e-mail clients to clean up using settings above.



E-mail client settings

Acronis Privacy Expert Suite currently supports MS Outlook and Outlook Express e-mail clients.

Internet Clean-up

4.4 Cleaning up separate Internet components

If you don't want to remove traces of all components listed in the **Internet Clean-up** (e.g. to save time), you can separately clean any component in this category.

In that case, all global settings of the **Internet Clean-up Wizard** will be valid for separate components as well.

To clean up separate components, select them by clicking **Clean-up** component in the **Internet Clean-Up** category and run the **Internet Clean-up** Wizard.

Chapter 5. System Clean-up

5.1 General information

In the **System clean-up** section, you can clean up components (folders, files, registry sections, etc.), related to general system tasks. These Windows components retain evidence of user PC activity, so they too should be thoroughly wiped to maintain confidentiality.

5.2 Using the System Clean-up Wizard

The System Clean-up Wizard enables you to securely remove all traces of your PC actions stored by Windows.

It performs the following:

- Removes **temporary files** from respective Windows folders
- Removes custom folders/files from any media connected to a PC
- Securely destroys data in the Windows Recycle Bin
- Cleans up free space of any traces of information previously stored on it
- Cleans up opened/saved files history
- Cleans the list of user system passwords
- Cleans the Windows prefetch directory, where Windows keeps the information about programs you have executed and run recently
- Removes traces of file searches on connected disks and computers in the local area network
- Destroys registry backups (Windows 98/Me only)

After you run the **wizard**, it will search for any traces of user actions stored by Windows. The search results will be available in the righthand part of the **wizard window**.

System Clean-up



System clean-up wizard

After the search is finished, you will be able to manually select elements to remove.

System Clean-up Wizard	
Preview Preview data items to clean.	>
Scan is completed. 715 items found Below is the detailed list of found items:	i.
System Clean-up Cleans all your Windows activity traces and securely wipes hard disk free space.	System Clean-up System Components Recycle Bin Temporary Files Find Computers List Find Files List Recently Used Documents List Find Files List Find Files List Find Files List Find Files List Files Files
Please press the Next button to continu	ie. < <u>Back</u> <u>N</u> ext > <u>C</u> ancel

Preview system data to clean

After you select the elements to remove, you can run the clean-up.

5.3 System Clean-up Wizard settings

To set up the **System Clean-up Wizard**, select **Configure Clean-up Options** in the **Internet Clean-up** category.

To enable or disable any **System Clean-up** component, set or remove its **Enable this component** flag.

In the **System Clean-up Wizard** settings window, you can also set clean-up parameters for each system component. Some of these parameters are related to all components.

5.3.1 «Data Destruction Method» settings

This setting defines the method of guaranteed data destruction to use to clean up a given component.

By default, all components that have such a setting have it set to **Use common method** (see Appendix A «Hard Disk Wiping methods»).

If you need to set a custom method of data destruction for a component, choose **Use custom method for this component** and then select your preference (see Appendix A «Hard Disk Wiping methods»).

5.3.2 «Files» settings

The «Files» setting **provides** temporary **filenames to clean with** Acronis Privacy Expert Suite and can be used with a search string.

System Clean-up System Components Data Destruction Method Files Temporary Files Find Computers List Find Files List Find Files List Find Piles List Find Files List Files Windows Run List Files Files Windows Prefetch Directory Windows Prefetch Directory	Files Search by the criteria below. Enter all or part of the file name: *.doc Press the Show Files button to see files to be cleaned according to your mask. Show Files
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Files settings

Under the Windows operating system, a search string can represent a full or partial filename. A search string can contain any alphanumeric symbols, including comma, * and ? symbols, and can have values similar to the following:

 . – to delete all files from the Recycle Bin – with any file names and extensions

- *.doc to delete files with specific extension a Microsoft document file in this case
- read*.* to delete all files with any extensions, and names beginning with «read»
- read?.* to delete all files having five-letter names and any extensions, names beginning with «read»; the fifth letter is random
- The last search string, for example, will result in removal of read1.txt, ready.doc files, but readyness.txt will remain with its longer name (excluding the extension)

You can enter several different search strings separated by a semicolon; for example:

*.bak; *.tmp; *.~~~;

All files with names corresponding to at least one of the search strings will be deleted.

Upon entering the «Files» setting value, you can browse the search strings in the registry selected by Acronis Privacy Expert Suite. To do this, click Show Files. You will see the window with file names searched for. These items will be deleted.



Attention! The length of a search string with full or partial filenames is almost infinite! You can enter any number of filenames or their parts like *.tmp, read?.* separated by a semicolon.

5.3.3 «Computers» setting

The «Computers» setting cleans up the registry search strings for finding computers in the local network. These strings keep information on what interested you in the network. These elements should also be deleted to maintain confidentiality.

The «Computers» setting is the same as «Files». The «Computers» setting is a string that can contain any number of full or partial computer names separated by a semicolon. The deletion of computer search strings is based on a comparison with the «Computers» setting according to Windows rules.

If you simply need to delete all local network computer search strings (suitable in most cases):

- 1. Select Find Computer List.
- 2. Check the Enable the Find Computer List cleaning box.
- 3. Select the «Computers» setting; leave its default value unchanged *.

As a result, **all** computer search strings will be deleted from the registry.

Upon entering the «Computers» setting value, you can browse the search strings in the registry selected by Acronis Privacy Expert Suite. To do this, click Show Computers. You will see the window with full and partial computer names searched for in the network. These items will be deleted.

System Clean-up



Computers settings

5.3.4 «Drive Free Space» setting

Here you can manually specify physical and/or logical drives to clean up free space on.

By default, Acronis Privacy Expert Suite cleans up free space on all available drives.

If you want to change settings of this parameter, you can use the **Remove** button to delete drives you don't need to clean free space on from the list.

If you need to add these drives to the list again, use the Add button.

Properties		
Properties You can view and change the current settings for you would like to change from the tree. System Clean-up System Clean-up System Clean-up System Components SS Recycle Bin SS Recycle Bin SS Temporary Files SS Components SS Data Destruction Method Drive Free Space SS Find Files List SS Find Files List SS Recently Used Documents List	The selected item. C Drive Free You can select the free space on the Please select logic Logical Drives C:\ D:\	hoose the component
Windows Run List Opened/Saved Files History System Passwords Windows Prefetch Directory	E:\ H:\	249.9 MB 595.6 MB

Drive Free Space settings

5.3.5 «Commands» setting

Here you can select the commands to remove during **Windows Run List** cleanup.

This template can contain any comma-separated command names or their parts, e.g.:

help; cmd; reg

This will result in removing commands with names corresponding to or containing any of the names or parts of names you entered.

System Clean-up System Components Recycle Bin Temporary Files Find Computers List Find Files List Files Files History System Passwords Files Windows Prefetch Directory	Commands Search by the criteria below. Enter all or part of the commands Press the Show Commands button to see the commands to be removed from the list according to your mask. Show Commands
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Commands settings

5.3.6 «System Password Filter» setting

Here you can enter any full or partial passwords values separated by a semicolon. You can also use * and ? wildcards to set this parameter.

To see passwords to be cleaned according to your filter, press **Show** passwords button.

System Clean-up

 System Clean-up System Components Recycle Bin Temporary Files Hard Disk Free Space Find Computers List Find Files List Recently Used Documents List Recently Used Documents List Opened/Saved Files History System Passwords System password Filter Windows Prefetch Directory 	System password Filter Search by the critera below. Enter all or part of the password first name or last name: Press the Show Passwords button to see passwords to be cleaned according to your filter. Show Passwords
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

System password filter settings

5.4 Cleaning up separate system components

If you don't want to clean up all system components, you can clean individual component separately.

In this case, all global settings of the **System Clean-up Wizard** will be valid for separate components as well

To clean up separate components, select them in the **Clean-up component** section in the **System Clean-Up** window and run the **System Clean-up Wizard**.

Chapter 6. Application Traces Clean-up

6.1 General information

Most Windows applications can store lists of recently opened files, as a convenience to users.

However, in some cases you might want to remove any trace that you used a particular program.

In this situation, the **Application Traces Clean-up Wizard** will preserve your privacy. This wizard cleans up the recently used files list of most popular Windows applications, including office, multimedia, graphics applications and system tools.

Application Traces Clean-up category enables you to:

- Completely remove all traces of your work with various Windows applications using the Application Traces Clean-up Wizard
- Fine-tune the **Application Traces Clean-up Wizard** to fully meet your needs.



Application traces clean-up wizard

6.2 Using the Application Traces Clean-up Wizard

After you run the **wizard**, it will search for any traces of user actions stored by Windows. The search results will be available in the righthand part of the **wizard window**.

After the search is finished, you will be able to manually select elements to remove:

Application Traces Clean-up



Preview application traces to clean

After you select the elements to remove, you can run the clean-up.

6.3 Application Traces Clean-up Wizard settings

To set up the Application Traces Clean-up Wizard, select Configure Clean-up Options in the Application Traces Clean-up category.

To enable or disable any **Application Traces Clean-up** component, set or remove its **Enable this component** flag.

You can set the following parameters in the **Application Traces Clean-up Wizard** settings window:

6.3.1 «Data Destruction Method» settings

This setting defines the method of guaranteed data destruction to use to clean up a given component.

By default, all components that have such a setting have it set to **Use common method** (see Appendix A «Hard Disk Wiping methods»).

If you need to set a custom method of data destruction for a component, choose **Use custom method for this component** and then select your preference (see Appendix A «Hard Disk Wiping methods»).

Application Traces Clean-up

Application Traces Clean-up O Applications Recent Files Data Destruction Method	Data Destruction Method
Files	Select a method: Use common method: U.S. Standard, DoD 5220.22-M Click to change this setting
	Use custom method for this component: Fast The fastest but the least secured data destruction algorithm. Overwrite all data with zeros in a single pass.

Data destruction method settings

6.3.2 Select Applications

In these settings, you can see a list of Windows applications, traces of that the **Application Traces Clean-up Wizard** can destroy. If an application is flagged, all traces of its usage will be deleted. Unflag an application if you want to keep its recently opened files list.



Applications selection

6.3.3 «Files» settings

The «Files» setting provides temporary **filenames to clean with** Acronis Privacy Expert Suite and can be used with a search string.

Properties	×
You can view and change the current settings from the tree.	or the selected item. Choose the component
	O <u>K</u> <u>C</u> ancel

Files settings

Under the Windows operating system, a search string can represent a full or partial filename. It can contain any alphanumeric symbols, including comma, * and ? symbols, and can have values similar to the following:

- *.* to delete all files from the Recycle Bin with any file names and extensions
- *.doc to delete files with specific extension a Microsoft document file in this case
- read*.* to delete all files with any extensions, and names beginning with «read»
- read?.* to delete all files having five-letter names and any extensions, names beginning with «read»; the fifth letter is random
- The last search string, for example, will result in removal of read1.txt, ready.doc files, but readyness.txt will remain with its longer name (excluding the extension)

You can enter several different search strings separated by a semicolon; for example:

*.bak; *.tmp; *.~~~;

Application Traces Clean-up

All files with names corresponding to at least one of the search strings will be deleted.



Attention! The length of a search string with full or partial filenames is almost infinite! You can enter any number of filenames or their parts like *.tmp, read?.* separated by a semicolon.

Chapter 7. My privacy tools

7.1 General information

My privacy tools offers additional means of providing user data privacy and work security:

- File shredder securely destroys any files or folders you select so they can't be recovered.
- Acronis Drive Cleanser securely destroys data on a selected partition and/or disk so it can't be recovered.
- Bootable Media Builder creates bootable diskettes or CDs to securely destroy data on PC hard disks even without having Acronis Privacy Expert Suite installed.
- Paging file cleaner cleans up the Windows swap file.



My privacy tools window

This chapter describes the **File Shredder** and **Paging File Cleaner** tools. The usage and setup of **Acronis Drive Cleanser** is described in it respective chapter.

If you need to:

- Securely destroy files or folders you select, run File Shredder. See section 7.2 of this guide, «Using File Shredder», for instructions on how to use it.
- Clean up the Windows swap file run Paging File Cleaner. See section 7.3 of this guide, «Paging file cleaner», for instructions on how to use it.

- Securely destroy data on selected partitions and/or disks so it can't be recovered, run Acronis Drive Cleanser. For more information on how to use it, see 0 of this guide, «Options
- Acronis Drive Cleanser».

7.2 Using File Shredder

The File Shredder enables users to select files and folders quickly in order to destroy them permanently.

This wizard features the familiar Windows Explorer interface.

To run the folders/files cleaner, do one of the following:

- Select File Shredder in the My privacy tools category
- Select Tools → File Shredder in the main menu
- Select File Shredder button in the main menu

File Shredder	Wizard	X
Select Folders, Please select	/Files folders and files that you would like to shred.	
My Comp S.5 Fill Coal Do Do	uter oppy (A:) Disk (C:) fork OTWIZ cuments and Settings Music ogram Files CYCLER ft stem Volume Information mp NIDOWS INDOWS INDOWS2 ork_old ITOEXEC ot NNFIG werfil	
	< <u>Back</u> Next >	

Using File Shredder

7.3 Paging file cleaner

The **Paging file cleaner** allows you to remove any traces of PC or Internet activity permanently.

A **paging file** is a file on a hard disk (e.g. C:\win386.swp in Windows 98/Me or C:\pagefile.sys in Windows NT/2000/XP/2003 Server) used by Windows as additional memory when that is required in order to run applications.

This file might contain personal information that a user is unaware is there. For example, if a user opened too many Internet Explorer windows and entered personal information in one of them, then tried to switch to another Internet Explorer window, the operating system might lack enough physical memory for all the windows and store the contents of the previous one in its paging file. If a user closes browser windows after this, there is a strong possibility that confidential information will have been left in the paging file.

To run the Paging file cleaner, do one of the following:

- Click the Paging file cleaner icon in the My privacy tools category of the Acronis Privacy Expert Suite main window
- Select Tools → Paging file cleaner in the main menu
- Click Paging file cleaner on the toolbar

After you run **Paging file cleaner**, you can set it to clean up the swap file at each reboot by clicking **Enable**.

If you want to disable paging file clean-up, select **Disable**.

Clean paging file data.	
Enable or disable Pagefile/Swap file clean-up the options below.	. Choose one of
Enable	
 Disable 	
Description	
Disable paging file clean-up	

Paging file cleaner activation

Chapter 8. Acronis Pop-up Blocker

8.1 What are pop-ups?

While browsing some Web sites, you might have unwanted pop-up windows open along with the window you want. Generally, pop-ups contain bothersome advertising. They slow down your Internet connection speed and increase the traffic you pay for. On some Web sites, pop-ups are used to provide extra information or as locations where the user needs to input information.

8.2 Acronis Pop-up Blocker

Acronis Pop-up Blocker is activated automatically after installation and prevents new windows from opening while browsing a website with the Microsoft Internet Explorer. With Acronis Pop-up Blocker, you can filter a selected web site contents (GIF files and flash animation, ActiveX objects, pop-ups in layers, etc.).

8.3 Acronis Pop-up Blocker settings

You can invoke the Acronis Pop-up Blocker options window in the following ways:

- By selecting Acronis Pop-up Blocker in the Tools menu of the Internet Explorer
- By clicking Acronis Pop-up Blocker icon on the toolbar of the Internet Explorer
- By right-clicking on a web page and selecting Acronis Pop-up Blocker Options on the context menu



Pop-up Blocker settings

8.3.1 Acronis Pop-up Blocker General Settings

In the general settings section, you can enable or disable Pop-up Blocker by selecting/deselecting **Enable Acronis Pop-up Blocker** parameter.

Choose the appropriate filter level (webpage content blocking) by dragging the slider. To customize the current filter's settings click **Change settings** and select a contents to be blocked.

8.3.2 User List

In this section, you can make up your own **User List** – list of sites with customized filter settings. The User List is sometimes known generically as a **White List.** Here you can pre-approve certain pop-ups, such as a log-in pop-up from your bank.

To add a new site, click the **Add** button. On the appearing window enter its URL and adjust filter settings.

To edit the existing site and its filter settings click the **Edit** button and on the appearing window make the necessary changes.

Also you can move the existing site to the Black List section by clicking **Move to Black List**. **Remove** button rejects the selected site from the list. Use **Clear** button to remove all entries from the **User List**.

u are going to add	st ns site remov gif X	s for wł ve sites flash	hich cu from ActX X	ustom this li: aplt	filter s st. Nayer	ettings w Date 21/11/20	ere spec	cified. You 37:21
User List contain can add, edit or Site www.xyz.com	st remo gif X	s for wh ve sites flash	hich cu from ActX X	ustom this li: aplt	filter s st. Nayer	ettings w Date 21/11/20	ere spec	cified. You 37:21
Site www.xyz.com u are going to add	gif X	flash	ActX	apit X	layer	Date 21/11/20	005 14:3	37:21
www.xyz.com	×		×	×		21/11/20	005 14:3	37:21
u are going to add	d,							
f)								
<u>ok</u>		ancel		k List		emove	Edit	Add
F))) OK Cancel) OK Cancel) OK Cancel) Klist R OK Cancel) KList Remove) KList Remove Edit

User list

8.3.3 Black List

If necessary, you can use Acronis Pop-up Blocker to block a Web site by adding its URL to the **Black List**. In this case, you will see "Acronis Privacy Expert Pop-

up Blocker: Black URL link – navigation stopped" message in the browser when trying to access this Web site.

To add a new site, click the **Add** button. On the appearing window enter its URL. Also you can move the existing site to the **User list** by clicking **Move to User List**.

To remove the existing site from the list click **Remove**. Use **Clear** button to remove all entries from the **Black List**.

Acronis Pop-up Blocker Opt	ions		×
Configure Acronis Pop-up Blocker	options.		Oĭ
Pop-up Blocker User List Black List History Options	Black List Black List contains site Site www.adult.com	s that are disallowed to open. Date 21/11/2005 13:05:25	
Add URL Provide descr www.xxx.cor	iption for the URL you are g	Ding to add.	
		Move to Liser List Remove	<u>A</u> dd
		OK Cancel Ap	ply

Black list

8.3.4 History

The **History** section contents a list of visited websites with detailed information on the blocked content.

In this list, you can select websites to move to either the **User** or **Black** list. Moving a website to the **User list** means that you allow this site to be browsed. Moving a site to the **Black list** means that you always want to block this site. Use **Clear** button to remove all entries from the list.

Acronis Drive Cleanser



History

8.3.5 Acronis Pop-up Blocker options

In this section you can set up the following Acronis Pop-up Blocker options:

- Secure sites blocking (via https protocol). Enable https blocking only if it is really necessary!
- Blocking the Internet Explorer spawned configuration windows, dialogs and panels
- Hotkeys for temporary disabling Acronis Pop-up Blocker
- Enable/disable sound notifications (sound beep, play sound, select sound for notifications) and displaying massages in the Internet Explorer status bar

Acronis Drive Cleanser



Options

Chapter 9. Acronis Drive Cleanser

9.1 Acronis Drive Cleanser capabilities

Many operating systems do not provide users with sufficient data destruction tools, so deleted files can be restored easily by simple applications. Even a complete disk reformat can't guarantee permanent confidential data destruction.

Acronis Drive Cleanser solves this problem with guaranteed and permanent data destruction on selected hard disks and/or partitions. It allows you to select from a number of data destruction methods depending on the importance of your confidential information.

9.2 Working with Acronis Drive Cleanser

Acronis Drive Cleanser allows you to perform the following:

- clean up selected hard disks or partitions using preset methods
- create and execute custom user methods of hard disk clean-up.

Acronis Drive Cleanser is based on a **wizard** that **scripts** all hard disk operations, so no data destruction is performed until you execute the complete script. At any stage, you can return to the previous stages to select other disks or partitions or data destruction methods.

First, you must select the hard disk partitions where you want to destroy data.

Acronis DriveCleanser				
Data Selection Select data to be wiped without any possibility of r	recovery			2
You can choose partitions, unallocated space and wh the left mouse button. Please, select data to be wipe C:	ole drive d in the p	es. To picture H:	sele bel	ect data place the mouse pointer on it then click ow.
26.34.GF 34.1 GB NTFS 27.33 GB 5.5 GB NTFS	3 E: 60	5	5	38.09 GB Ext3
Firmary Logical				Unallocated
				< <u>Back</u> Next > Cancel

The list of PC hard disks with partitions

To select a partition, click the corresponding rectangle. You will see a red mark in the upper right corner indicating the partition is selected. You can select an entire hard disk or several disks for data destruction. To do this, click the rectangle corresponding to the hard disk (with a device icon, disk number and capacity.)

You can select several partitions simultaneously located on different hard disks or on several disks.

Click Next to continue.

In the **Final actions** window, you can select actions to be performed on the partitions selected for data destruction. Acronis Drive Cleanser offers you three variants:

- Leave partition as is just destroy data using the method selected below
- Delete partition destroy data and delete partition
- Format partition destroy data and format partition (default)

Seconis DriveCleanser	X
Post-wiping Actions Select actions to be performed after the data is wiped.	2
Please select actions with the wiped partitions to be performed after data destroying is completed. Leave partitions as is Delete partition Format Description Format the wiped partitions with file systems that existed on these partitions before wiping.	
<gack next=""></gack>	

Final actions window

In this example, the switch is set to **Format**. This will allow you to see the results of partition and data destruction, along with the reformatting of the partition.

9.3 Using preset data destruction methods

Acronis Drive Cleanser utilizes a number of the most popular data destruction methods that are described in detail in Appendix A «Information wiping methods used by » of this manual.

Acronis Drive Cleanser

≽ Acronis DriveCleanser	X
Method Selection Select method for wiping.	2
You can choose the appropriate method from the list of methods. Find the description of the chose you want to use your own method select the "Custom" item:	en method below. If
U.S. Standard, DoD 5220.22-M	V
U.S. Standard, DoD 5220.22-M	
NAV50 P-5239-26 (RLL)	
NAV5O P-5239-26 (MFM)	
German Standard, VSITR	
Russian Standard, GOST P50739-95	
Peter Gutmann	
Bruce Schneier	
Fast	
Custom	
Load from file	
< Back Next	> <u>C</u> ancel

The list of preset methods

After you select a method, Acronis Drive Cleanser will perform all actions necessary to destroy contents of the selected partition or disk. After this is done, you will see a message indicating the successful data destruction.

Acronis Drive Cleanser offers you another useful capability — to estimate the results of executing a data destruction method on a hard disk or partition. It features an integrated **DiskViewer hard disk browsing tool**.

The aforementioned methods offer various levels of confidential data destruction. Thus the picture you might see on disk or partition depends on the data destruction method. But what you actually see are disk sectors filled with either zeros or random symbols.

≽ Acro	onis C	Diskl	Edito	or -	read	l-on	ly m	o de	: (di	sk 1	, se	ctor	s 59	,10	3,19	98 -	80,292,869)		X
]] <u>D</u> isk	<u>E</u> dit	⊻ie	ew	Sear	ch	Help													
	ρ	1)	≯	G)												Acror	nis
Weste	rn (Wi	indov	vs)		~	-													
Absolute :	sector	59,1	03,2	05 (c	ylinde	er 3,6	79, ŀ	nead	1, se	ctor 8	3)								^
0000:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			9
0010:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0020:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0030:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0040:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	• • • • • • • • • •	• • • • • • • •	
0050:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0000.	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0080:	00	00	00	00	00	00	00	00	00	nn	00	nn	00	nn	00	00			
0090:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
00A0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
00B0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0000:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
00D0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
00E0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
00F0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0100:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		• • • • • • •	
0110:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0120:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0130:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
Sector:	59,103	3,198															Position:	View: Hex	:

DiskViewer window

9.4 Creating custom methods of data destruction

Acronis Drive Cleanser gives you an opportunity to create your own methods for wiping hard disks. Although the software includes several levels of data destruction, you can choose to create your own.

9.4.1 Creating custom methods

To create a custom method of hard disk wiping, select and mouse-click the «Custom...» line from the drop-down list in the **Method selection** window. Please pay close attention to the load method option in the same drop-down list.

Acronis DriveCleanser	X
Method Selection Select method for wiping.	3
You can choose the appropriate method from the list of methods. Find the description of the chosen method below, you want to use your own method select the "Custom" item:	If
U.S. Standard, DoD 5220.22-M	4
U.S. Standard, DoD 5220.22-M	
NAV50 P-5239-26 (RLL)	
NAV50 P-5239-26 (MFM)	
German Standard, VSITR	
Russian Standard, GOST P50739-95	
Peter Gutmann	
Bruce Schneier	
Fast	_
Custom	
Load from file	
< <u>Back</u> <u>Next</u> <u>Cano</u>	el

The selection of custom method creation

Click the Next button to continue.

The window with the script for wiping a hard disk partition (the partition and/or hard disk was selected during a previous step) shows after the selection of one of the predefined wiping methods. This time the Custom method wizard will be started and you will see the **Number of passes** window.

As an example, let's create a simple custom method similar to the U.S. Department of Defense standard. This standard assumes three passes for a hard disk during which different symbols are written to it, plus one more pass for verification — i.e. four passes total.

Acronis Drive Cleanser



The window with number of passes of the custom method

Remember, the predefined wiping methods perform from one (fast method, the Russian standard) to up to 35 passes (Peter Gutmann's method).

You may enter any value into the spinner field of the wizard window with the keyboard or mouse. For our example, enter 4 into this field.

Click the Next button to continue.

9.4.2 Method definition: template

The **Method definition** window shows you a template of the future method; the list contains many elements, including the defined method at the previous stage.

1	Acronis DriveClea	inser		
Me	thod Definition Your method wiping	passes adjustment	2	
Pl ch to	ease select a pass fri hange settings for ser h continue.	om the list below then press Ne veral passes at once. Do not s	xt to change settings for the choosen pass. Note that you elect passes if you finish adjusting parameters, just press f	u can Next
3	f Operation		Pattern	
1234		write write write write	00 00 00 00	
			< <u>B</u> ack <u>N</u> ext > <u>C</u> an	cel

The method definition window

The window has the following legend: The first column of the list contains the number of passes for a disk; the second contains the type of operation on a disk (there are just two: to write a symbol to disk, «writing», and to verify written,

«verification»); the third column contains the pattern of data to be written to disk.

The pattern to be written is always a hexadecimal value, for example, a value of this kind: 0x00, 0xAA, or 0xCD, etc. These values are 1 byte long, but they may be up to 512 bytes long. Except for such values, you may enter a random hexadecimal value of any length (up to 512 bytes). Your method may also include one more value for writing that is designated as the «complementary value» – the value that is complementary to the one written to disk during the previous pass.



If the binary value is represented by 10001010 (0x8A) sequence, then the complementary binary value will be represented by 01110101 (0x75) sequence.

Thus you may include the following values in a method:

- Any hexadecimal value 1-512 bytes long
- Random hexadecimal values 1-512 bytes long
- Hexadecimal values, complementary to those written to hard disk during the previous pass

The **Method definition** window offers you the template for the method only. You should define exactly what the software should write to disk to destroy the confidential data according to your method.

To do this, click your mouse on the line representing pass #1.

le Acronis Drive	Cleanser		X
Method Definitio Your method wij	n ping passes adjustment		2
Please select a pa change settings fo to continue.	ss from the list below then press Ne or several passes at once. Do not se	«t to change settings for the choosen p lect passes if you finish adjusting paran	bass. Note that you can neters, just press Next
# Operation		Pattern	
2	write write	00.00	
3	write	00	
		< <u>B</u> ack	ext > Cancel

The selection of the first pass for pattern definition

Click the Next button to continue.

You will see the window that allows you to define the pattern to be written to disk (hexadecimal value).

Acronis DriveCleanser	
Wiping Pass Adjustment Change parameters for the custom method pass.	2
Wiping Pass Adjustment	
Write pattern:	
00	
○ Write complementary to previous pass pattern ○ Yerify	
Description	
All the data will be overwritten with the choosen pattern. Please enter the patt	ern.
	ack Next > Cancel

The wiping pass adjustment window for definition of patterns to be written

In this figure, the switch is set to the **Write a value** position by default, and the hexadecimal value 0x00 is entered into the field.

This is what the window control elements mean: You may enter any hexadecimal value into the field under the **Write a value** switch to write it to a hard disk during any pass (during the first pass in this case).

By setting the switch to **Write a random value** position, you first will select write a random value to disk, and specify the length of random value in bytes in the spinner field below.

The U.S. standard provides the writing of random values to each byte of each disk sector during the first pass, so set the switch to **Write a random value** position and enter 1 into field.

≽ Acronis DriveCleanser	
Wiping Pass Adjustment Change parameters for the custom method pass.	2
Wiping Pass Adjustment	
<u>Write pattern:</u>	
00	
Write random number. Random length:	
C Description	
A random value will be generated. Then all the data will be overwritten with this number. Pl of bytes in the random value. The random value length can vary from 1 to 512 bytes long.	ease select the number
< gack N	ext > Cancel

The input of a random 1-byte value as the pattern for writing

Click the Next button to continue.

You will be taken to the method definition window again and will see that the former record (1 - write - 00) was replaced by 1 - write - random value, 1 byte.

🍃 Ac	ronis DriveCleanser			X
Meti Y	hod Definition our method wiping passes	adjustment		2
Plea char to c	ise select a pass from the nge settings for several p ontinue. Operation	list below then press Ne asses at once. Do not s	ext to change settings for the choosen pas elect passes if you finish adjusting paramet Pattern	is. Note that you can ers, just press Next
1 2 3 4		write write write write	random, 1 bytes 00 00 00	
			< Back Next	> <u>C</u> ancel

The first pass of the custom method is defined

To define the next pass, select the second line of the list and click the Next button.

You will see the already-familiar window, but this time there will be more switch positions available: two additional positions will be available for selection:

- Write complementary to previous pass pattern
- Verify.

Acronis DriveCleanser	
Wiping Pass Adjustment Change parameters for the custom method pass.	2
Wiping Pass Adjustment Wipite pattern:	
Write random number. Random length:	
Write complementary to previous pass pattern Yenfy Description	
Select this operation if you want Acronis DriveCleanser to count the complement The data will be overwritten with the newly counted pattern.	ntary to the previous step pattern.
<8	ack Next > Cancel

The input of value complementary to the one written during the previous pass

As during the second pass of the U.S. standard, each disk sector is filled with hexadecimal values that are complementary to those written during the previous
pass. Therefore you should set the switch to the **Write complementary to previous pass pattern** position and click the Next button.

You will be taken to the method definition window again. In this window, the second record looked like this before: 2 -write - 00, and it was replaced by: 2 -write - previous step complementary value.

≽ Acronis Dr	iveCleanser	X
Method Definition Your method wiping passes adjustment		2
Please select a change setting to continue.	pass from the list below then press Ne s is for several passes at once. Do not se	xt to change settings for the choosen pass. Note that you can lect passes if you finish adjusting parameters, just press Next
# Operation		Pattern
1 2 3 4	write write write	random, 1 bytes complementary to previous step pattern 00 00
		< Back Next > Cancel

The second pass of the custom method is defined

Following the U.S. data destruction standard specification, define third and fourth data overwriting passes.

In the same way, you can create any data destruction method to match your security requirements.

9.4.3 Saving a custom method to file

In the next **Saving custom method** window, you will be able to save the method you have created. This will be useful if you are going to use it again.

Scronis DriveCleanser	
Saving Custom Method You can save the method you have created to a file if you want to.	2
Please, choose whether you want to save your method to a file. Cgntinue without saving Save to a file Description Select this item if you want to save your method description to a file. You will be able to load the sav later.	ed method
< <u>Back</u> Next >	⊆ancel

The saving custom method window

Acronis Drive Cleanser

In order to save your method, you need to give it a filename and define the path in the Select file field or click the Browse button to locate an existing file on the disk. You should also enter a brief description of your method.

🔺 Acronis I	DriveCleanser		٤
Saving Cust You can s	om Method ave the method you have created	d to a file if you want to.	2
Desktop H My D My D My D My D My C H J S	ocuments omputer 5 Floppy (A:) scal Disk (C:) ocal Disk (C:) D Drive (F:) scal Disk (H:) nared Documents etwork Places	Local Disk (C:) Local Disk Free Space: 17.6 GB Total Size: 34.1 GB	
Elle name: Files of type:	C:1		~
	Method Files (*.alg)		~
		< Back	t> <u>C</u> ancel

The method filename and description window



Each custom method is stored in a separate file with its own name. If you try to write a new method to an already existing file, the existing file's contents will be erased.

As all passes of your method are defined and the method is saved to file, clicking the Next button will let you see the window with the generated wiping script based on your custom method.

≽ Acronis DriveCleans	er		X
DriveCleanser	Acronis DriveCleanser is ready list of operations to be proces are destroying only the corre recover the data on the partiti	to proceed with physical data destru- ised. Please check them very carefull ct partitions. Remember that you w ons selected for destruction.	uction. Here is a y to assure you ill be unable to
	Operation 1 of 3 Wiping partition Partition: Type: File system: Webwee labels	1-5 6 (FAT16) FAT16	
	Volume label: Size: Method: Total passes:	596.1 MB User defined 4	
	Wiping unallocated space Begin sector: Size: Method: Total passes:	71,505,315 3.072 GB User defined 4	
	Operation 3 of 3 Formatting partition Hard disk: Drive letter:	1 H: EATLE	~
www.acronis.com	Press Proceed to begin.	PALIN	
		< <u>Back</u> Proceed	<u>C</u> ancel

The script of data destruction, based on the custom method

By clicking the Proceed button, you will execute the generated script.

9.4.4 Loading a method from a file

If you created and saved your method for data destruction while working with Acronis Privacy Expert Suite software, you can use it in the following way:

In the **Select Method** window, choose **Load from file...** from the drop-down list and select the file with custom data destruction method parameters. By default, such files have *.alg extension.

🍃 Acronis DriveCleanser	
Method Selection Select method for wiping.	2
You can choose the appropriate method from the list of meth you want to use your own method select the "Custom" iteg	ods. Find the description of the chosen method below. If $\underline{\mathbf{n}}:$
Custom	
U.S. Standard, DoD 5220.22-M NAVSO P-5239-26 (RLL) NAVSO P-5239-26 (MFM) German Standard, VSITR Russian Standard, GOST P50739-95 Peter Gutmann Bruce Schneier Fast Custom	
	< <u>Back</u> <u>Next</u> <u>Cancel</u>

Method selection: loading from file

9.5 Creating a bootable diskette or CD with Acronis Drive Cleanser

If you didn't create a bootable diskette or CD with Acronis Drive Cleanser during installation of Acronis Privacy Expert Suite, you can do it later using the **Bootable Media Builder**.

This diskette or CD will allow you to easily and permanently destroy data on your PC even if it doesn't have Acronis Privacy Expert Suite installed.

To create a bootable diskette, select **Bootable Media Builder** in the **My privacy tools** group of the main program window and follow the **wizard** instructions.

Appendix A. Hard Disk Wiping methods

Information removed from a hard disk drive by non-secure means (for example, by simple Windows delete) can easily be recovered. Utilizing specialized equipment, it is possible to recover even repeatedly overwritten information. Therefore, guaranteed data wiping is more important now than ever before.

The **guaranteed wiping of information** from magnetic media (e.g. a hard disk drive) means it is impossible to recover data by even a qualified specialist with the help of all known tools and recovery methods.

This problem can be explained in the following way: Data is stored on a hard disk as a binary sequence of 1 and 0 (ones and zeros), represented by differently magnetized parts of a disk.

Generally speaking, a 1 written to a hard disk is read as 1 by its controller, and 0 is read as 0. However, if you write 1 over 0, the result is conditionally 0.95 and vice versa – if 1 is written over 1 the result is 1.05. These differences are irrelevant for the controller. However, using special equipment, one can easily read the «underlying» sequence of 1 and 0.

It only requires specialized software and inexpensive hardware to read data «deleted» this way by analyzing magnetization of hard disk sectors, residual magnetization of track sides and/or by using current magnetic microscopes.

Writing to magnetic media leads to subtle effects summarized as follows: every track of a disk stores **an image of every record** ever written to it, but the effect of such records (magnetic layer) becomes more subtle as time passes.

A.1 Information wiping methods' functioning principles

Physically, the complete wiping of information from a hard disk involves the switching of every elementary magnetic area of the recording material as many times as possible by writing specially selected sequences of logical 1 and 0 (also known as samples).

Using logical data encoding methods in current hard disks, you can select **samples** of symbol (or elementary data bit) sequences to be written to sectors in order to **repeatedly and effectively wipe confidential information**.

Methods offered by national standards provide (single or triple) recording of random symbols to disk sectors that are **straightforward and arbitrary decisions**, **in general**, but still acceptable in simple situations. The most effective information-wiping method is based on deep analysis of subtle features of recording data to all types of hard disks. This knowledge speaks to the necessity of complex multipass methods to **guarantee** information wiping.

The detailed theory of guaranteed information wiping is described in an article by Peter Gutmann. Please see:

http://www.cs.auckland.ac.nz/~pgut001/pubs/secure_del.html.

A.2 Information wiping methods used by Acronis

The table below briefly describes information wiping methods used by Acronis. Each description features the number of hard disk sector passes along with the number(s) written to each sector byte.

NN	Algorithm (writing method)	Passes	Record
1.	United States Department of Defense 5220.22- M	4	1 st pass – randomly selected symbols to each byte of each sector, 2 – complementary to written during the 1 st pass; 3 – random symbols again; 4 – writing verification.
2.	United States: NAVSO P-5239-26 (RLL)	4	1 st pass – 0x01 to all sectors, 2 – 0x27FFFFFF, 3 – random symbol sequences, 4 – verification.
3.	United States: NAVSO P-5239-26 (MFM)	4	1 st pass – 0x01 to all sectors, 2 – 0x7FFFFFFF, 3 – random symbol sequences, 4 – verification.
4.	German: VSITR	7	1 st – 6 th – alternate sequences of: 0x00 and 0xFF; 7 th – 0xAA; i.e. 0x00, 0xFF, 0x00, 0xFF, 0x00, 0xFF, 0xAA.
5.	Russian: GOST P50739-95	1	Logical zeros (0x00 numbers) to each byte of each sector for 6 th to 4 th security level systems. Randomly selected symbols (numbers) to each byte of each sector for 3 rd to 1 st security level systems.
6.	Peter Gutmann's method	35	Peter Gutmann's method is very sophisticated. It's based on his theory of hard disk information wiping (see http://www.cs.auckland.ac.nz/~pgut001 /pubs/secure_del.html).
7.	Bruce Schneier's method	7	Bruce Schneier offers a seven-pass overwriting method in his Applied Cryptography book. 1 st pass – 0xFF, 2 nd pass – 0x00, and then five times with a cryptographically secure pseudo-random sequence.
8.	Fast	1	Logical zeros (0x00 numbers) to all sectors to wipe.

The description of built-in information wiping methods

Appendix B. Malware threats glossary

This glossary contains supplemental information on the most popular malware from which Acronis Privacy Expert Suite protects you.

Adware

This is a kind of Web marketing where banners are integrated into freeware and shareware programs. To be able to use a program, a user has to watch ads downloaded from the Web. This increases traffic volume and slows down your Internet connection.

Browser Helper Objects

Some Browser Helper Objects are useful at expanding your browser's capabilities, but there are others that might not need your permission to install on your computer and that can be used for malicious purposes like gathering information on your surfing habits. This can cause problems ranging from incompatibility issues to corrupting important system functions, making them not only a threat to your security, but also to your system's stability.

Browser hijackers

Browser hijackers have the ability to change your Internet browser settings, redirect your Web searches through their own search engines, redirect mistyped or incomplete URLs, and change your default home page. They may redirect your searches to "pay-per-search" Web sites which are very often pornographic Web sites.

Commercial keylogger

Keyloggers register which keys are pressed on user PC and transmit this information via e-mail. Such applications can also store the time of running or quitting any applications. They might operate without users' knowledge.

Dialers

Dialers have the ability to disconnect your computer from your local Internet provider and reconnect you to the Internet using an alternate connection, such as an expensive pornographic, toll or international phone number. They do not spy on you, but they may rack up significant long-distance phone charges. They have the ability to run in the background, hiding their presence.

Exploit/Security holes

These are security bugs and vulnerabilities in applications primarily meant for Web operations. Through such holes, intruders can corrupt a PC or gain remote control over it.

Backdoor

A kind of software, including commercial, designed for remote PC control. In some cases, users might not be aware of such applications running.

Sniffers

Programs that capture network traffic (sent and received data packets). Sniffers could be a serious threat, able to capture and decrypt user names, passwords and private information and prevent normal operation of computers and network in general. As most protocols (FTP, POP, HTTP, telnet) have secret information transmitted unencrypted, an intruder can easily gain access to a user's information by setting up sniffer filters and waiting for the victim to connect to a server.

Spyware

Programs that secretly gather and transmit personal user information. Spyware can be a part of various applications, including commercial products.

Toolbars

Toolbars can be downloaded to your Web browser to make browsing easier. Examples include the Google, Alexa and Yahoo toolbars. Even though these are very handy to use, they have the ability to track everything you do on the Internet and to pass that information back to the owners of the toolbars. Be sure to read the terms and conditions page before you download any toolbar.

Trojan Horses (Trojans)

Trojans are specially created programs that are deployed to PCs imitating useful applications and utilities. They can result in failures, lock-ups or even complete data destruction. Trojans are spread via mailing lists, Web forums, etc.