

Kaspersky Endpoint Security 8 for Mac

**KASPERSKY** **lab**

Administrator's guide

APPLICATION VERSION: 8.0 CRITICAL FIX 2

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# CONTENT

KASPERSKY LAB END USER LICENSE AGREEMENT .....	3
ABOUT THIS GUIDE .....	12
In this document .....	12
Document conventions .....	14
ADDITIONAL SOURCES OF INFORMATION .....	15
KASPERSKY ENDPOINT SECURITY 8 .....	17
Distribution kit .....	18
Hardware and software system requirements .....	18
INSTALLING THE APPLICATION .....	19
Preparing for installation .....	19
Installing the application .....	19
Kaspersky Endpoint Security default installation .....	20
Kaspersky Endpoint Security custom installation .....	21
Preparing for use after installation .....	22
Deleting the application .....	22
LICENSE MANAGEMENT .....	24
About license .....	24
Viewing license information .....	25
Purchasing a license .....	25
Renewing a license .....	26
About End User License Agreement .....	27
About the activation code .....	27
About the key file .....	27
Kaspersky Endpoint Security activation .....	27
Activating the application with an activation code .....	28
Activating the application with a key file .....	29
APPLICATION INTERFACE .....	30
Kaspersky Endpoint Security icon .....	30
Main application window .....	32
Application preferences window .....	34
Notification windows and pop-up messages .....	35
About notifications .....	35
Methods of receiving notifications .....	35
Configuring receipt of notifications .....	36
About pop-up messages .....	37
Configuring the Kaspersky Endpoint Security interface .....	37
STARTING AND STOPPING THE APPLICATION .....	39
Closing Kaspersky Endpoint Security .....	39
Configuring the automatic startup of Kaspersky Endpoint Security .....	39
Configuring the power-saving mode .....	40
COMPUTER PROTECTION STATUS .....	41
Assessing the computer's protection status .....	41



Security Assistant .....	42
SOLVING TYPICAL TASKS.....	43
How to perform a full scan of your computer for viruses.....	43
How to perform a quick scan of your computer .....	44
How to scan a file, folder or disk for viruses .....	44
How to configure a scheduled scan of your computer .....	44
How to purchase or renew license.....	45
How to update application databases and modules .....	45
How to export the application preferences to Kaspersky Endpoint Security installed on another computer .....	45
What to do if file access is blocked.....	46
What to do if you suspect an object of being infected with a virus.....	47
How to restore an object that has been deleted or disinfected by the application .....	47
How to view the report on the application's operation.....	48
What to do when the application's notifications appear .....	48
ADVANCED APPLICATION SETTINGS .....	49
Creating a protection scope.....	49
Selecting malicious programs to be monitored .....	49
Creating a trusted zone.....	51
File Anti-Virus .....	53
Disabling file protection .....	54
Restoring protection on your computer .....	56
Configuring File Anti-Virus .....	57
Restoring default file protection settings .....	62
File protection statistics.....	63
Virus Scan .....	64
Managing virus scan tasks.....	65
Creating a list of objects to scan .....	69
Configuring virus scan tasks .....	70
Restoring default scan settings.....	77
Virus scan statistics .....	78
Updating the application .....	80
Starting update.....	81
Rolling back the last update .....	81
Updating from a local source .....	82
Configuring the update.....	84
Update statistics.....	88
Reports and Storages.....	89
Quarantine .....	90
Backup Storage .....	92
Reports .....	94
Configuring reports and storages.....	96
WORKING WITH THE APPLICATION FROM THE COMMAND LINE .....	99
Viewing Help.....	100
Virus scan.....	100
Updating the application .....	102
Rolling back the last update.....	103
Starting / stopping a protection component or a task.....	103
Statistics on a component's operation or a task .....	104

Exporting protection settings .....	105
Importing protection settings.....	105
Activating the application.....	105
Closing the application .....	106
Return codes of the command line.....	106
ADMINISTERING THE APPLICATION VIA KASPERSKY ADMINISTRATION KIT .....	107
Standard deployment scheme.....	109
Installing software required for the remote administration of Kaspersky Endpoint Security.....	110
Installing the Kaspersky Endpoint Security management plugin.....	110
Local installation of Network Agent.....	111
Installation of Network Agent using the SSH protocol.....	112
Updating Network Agent via Kaspersky Administration Kit.....	113
Uninstallation of Network Agent.....	114
Remote installation of Kaspersky Endpoint Security .....	115
Installing the application using the SSH protocol.....	115
Installing the application via Kaspersky Administration Kit.....	116
Removing the application via Kaspersky Administration Kit.....	117
Managing Network Agent .....	118
Connecting a client computer to Administration Server manually. Utility tool klmover .....	119
Checking the connection between a client computer and Administration Server manually. Utility tool klnagchk.....	120
Starting / stopping Network Agent on a client computer .....	121
Administering the application.....	121
Starting and stopping the application .....	122
Modifying the application settings .....	123
Managing tasks .....	135
Starting and stopping tasks.....	137
Creating tasks .....	138
New task wizard.....	139
Configuring task settings.....	140
Managing policies.....	147
Creating policies .....	147
Policy Creation Wizard.....	148
Configuring policy settings .....	150
CONTACTING TECHNICAL SUPPORT SERVICE .....	152
APPENDIX.....	154
List of objects to scan by extension .....	154
Permissible file exclusion masks .....	156
Allowed exclusion masks according to the Virus Encyclopedia classification.....	157
GLOSSARY .....	158
KASPERSKY LAB.....	163
INFORMATION ABOUT THIRD-PARTY CODE .....	164
Program code.....	164
ADOBE ABI-SAFE CONTAINERS 1.0.....	165
BOOST 1.39.0 .....	165
CURL 7.19.3 .....	165
EXPAT 1.2 .....	165

FMT.H.....166

GROWL 1.1.5 .....166

INFO-ZIP 5.51.....167

LIBPNG 1.2.8.....167

LIBUTF.....167

LZMALIB 4.43 .....168

MD5.H.....168

MD5.H.....168

RFC1321-BASED (RSA-FREE) MD5 LIBRARY .....168

SHA1.C 1.2.....168

STLPORT 5.2.1 .....169

TINYXML 2.5.3 .....169

ZLIB 1.0.8, 1.2.3 .....169

Development tools.....169

    GCC 4.0.1.....169

Other information.....173

INDEX.....175

# ABOUT THIS GUIDE

This document is a guide to the installation, setup and operation of Kaspersky Endpoint Security 8 for Mac, as well as for remote administration of the application through Kaspersky Administration Kit. This document is intended both for a wide audience and for system administrators. Users should have a basic knowledge of working with a Mac. They should be familiar with the interface of the Mac OS X operating system, have basic skills of working with it and be able to use email programs and the Internet.

The aim of the document is:

- to help users to install the application on the computer on their own, and activate and configure it with regard to their needs;
- to help an administrator in solving problems related to remote administration of the application through Kaspersky Administration Kit;
- to provide a quick search of the information on application related issues;
- to tell users about additional sources of information about the application and explain how to contact Kaspersky Lab Technical Support Service.

## IN THIS SECTION:

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In this document.....	<a href="#">12</a>
Document conventions.....	<a href="#">14</a>

## IN THIS DOCUMENT

The user guide for Kaspersky Endpoint Security 8 is comprised of the following sections:

### Additional sources of information

This sections lists sources of additional information about the application and Internet resources where you can discuss it, share your ideas, ask questions, and receive answers.

### Kaspersky Endpoint Security 8

This section contains a description of the application's new features, and brief information on its components and functionality. It shows the function of each part of the package supplied and a range of services available to registered users of the application. This section contains hardware and software requirements which the computer must meet for the installation of Kaspersky Endpoint Security.

### Installing the application

This section contains instructions that will help you to install the application on the computer locally. This section also describes the application uninstall procedure.

### License management

This section contains information regarding the basic concepts used in the context of the application licensing. This section describes how to activate the application, where to view information about the current license, and how to purchase and renew a license.

## **Application interface**

This section contains description of the basic GUI components of the application: icon and context menu, main application window, settings window, and notification windows.

## **Starting and stopping the application**

This section provides you with information about how to launch the application and close it.

## **Computer protection status**

This section contains information about how to know whether your computer is protected at the moment, or if its security is under threat, as well as how to eliminate emerging threats with the help of Security Assistant.

## **Solving typical tasks**

This section describes the tasks encountered by the most users when working with the application as well as the procedures developed for carrying out these tasks.

## **Advanced application settings**

This section provides detailed information about each application component and describes the operation and configuration algorithms for each component.

## **Working with the application from the command line**

This section contains description of the use of the application and its components involving the command line.

## **Administering the application via Kaspersky Administration Kit**

This section contains a detailed description of the installation of Kaspersky Endpoint Security onto a remote user computer, as well as the installation of software required for remote administration of the application through Kaspersky Administration Kit. This section discusses application deployment over the network and remote administration of the application through Kaspersky Administration Kit using tasks and group policies.

## **Contacting Technical Support Service**

This section contains instructions for contacting Kaspersky Lab support services.

## **Appendix**

This section includes reference information which complements the document text.

## **Glossary**

This section contains the list of terms used in the document and their definitions.

## DOCUMENT CONVENTIONS

The document conventions described in the table below are used in this Guide.

Table 1. Document conventions

SAMPLE TEXT	DOCUMENT CONVENTIONS DESCRIPTION
Please note that...	Warnings are highlighted in red and enclosed in frames. Warnings contain important information, for example, on safety-critical computer operations.
It is recommended to use...	Notes are enclosed in frames. Notes contain additional and reference information.
<b>Example:</b> ...	Examples are given in section, on a yellow background, and under the heading "Example".
A <i>virus</i> is...	New terms are marked in italics.
<b>Command-A</b>	Names of keyboard keys appear in a bold typeface. Key names joined by a "minus" sign represent key combinations.
<b>Enable</b>	Names of interface components, for example, input fields, menu commands, buttons, etc., are indicted in bold.
➡ <i>To configure a task schedule:</i>	Instructions are marked by the arrow symbol. Introductory phrases to introductions are marked in italics.
kav update	Text in the command line or text of messages displayed on screen has a special font.
<IP address of your computer>	Variables are enclosed in angle brackets. Instead of a variable, the corresponding value is placed in each case, and the angle brackets are omitted.

# ADDITIONAL SOURCES OF INFORMATION

You can refer to the following sources of information about the application:

- application page at the Kaspersky Lab website;
- application page at the Technical Support Service website (Knowledge Base);
- Kaspersky Lab products users forum;
- help system.


## Application page at the Kaspersky Lab website

The application web page (<http://www.kaspersky.com/endpoint-security-mac>) will provide you with general information about Kaspersky Endpoint Security 8, its features and options. You can purchase Kaspersky Endpoint Security 8 or extend your license in our eStore.

## Application page at the Technical Support Service website (Knowledge Base)

Knowledge Base is a separate section of the Technical Support Service website (<http://support.kaspersky.com/kes8mac>), which provides recommendations for using Kaspersky Lab products. This page contains articles published by Technical Support Service.


These articles provide useful information, recommendations and answers to frequently asked questions related to the purchase, installation and use of Kaspersky Endpoint Security 8. They are grouped by topics, for example: "Troubleshooting", "Configuring the update", or "Configuring File Anti-Virus". The articles may answer questions, which are related not only to Kaspersky Endpoint Security 8 but also to other Kaspersky Lab products; they also may contain Technical Support Service news.

To switch to the Knowledge Base, open the main application window (on page [32](#)), click the  button and click the **Technical Support Service** button in the window that opens.

## Users forum



If your question does not require an urgent answer, you can discuss it with Kaspersky Lab specialists and other users in our forum (<http://forum.kaspersky.com>). It is also a separate section on the Technical Support Service website and contains Kaspersky Endpoint Security 8 users' questions, feedback, and requests.

In this forum you can view existing topics, leave comments, create new topics, and use the search engine.

To go to this resource, open the main application window (on page [32](#)), click the  button and in the window that opens click the **Forum** button.

## Help system

The application includes the full help and context help files. The full help file contains information about how to manage the protection of your computer: view the protection status, scan various areas of your computer for viruses, perform updates, handle reports and storages. Besides that, the context help file provides you with information about all windows of the application, listing and describing the settings and tasks related to each of them.

To open the full help, open the main application window (on page [32](#)) and click the  button. To open the context help, open the required window or the tab, and click the  button.

If you cannot find a solution to your problem in the Knowledge Base, in the Users forum, in the help system or documentation, we recommend that you contact Kaspersky Lab Technical Support Service (see section "Contacting Technical Support Service" on page [152](#)).



# KASPERSKY ENDPOINT SECURITY 8

Kaspersky Endpoint Security 8 for Mac (hereinafter Kaspersky Endpoint Security) is intended for use under the Mac OS X operating system to protect your computer from viruses and malware. The following options are implemented in the application:

## File Anti-Virus

Real-time protection of the computer's file system: interception and analysis of attempts to access the file system; disinfection, deletion of malicious objects and isolation of potentially infected objects for further analysis.

## Virus Scan

Search and deactivation of malicious code at the user's request: search and analysis of malicious and potentially infected objects in the designated protection areas; disinfection, deletion, or isolation of objects for further analysis.

The most useful virus scan tasks are included in the Kaspersky Endpoint Security package: full computer scan and quick scan of critical areas.

## Update

Updating of databases and modules of Kaspersky Endpoint Security from Kaspersky Lab's update servers and from Kaspersky Administration Kit Administration Server, creation of backup copies of all the updated files to allow a future roll back; copying of updates into a local source to allow other networked computers to access them, thereby reducing Internet traffic.

## Quarantine

Moving potentially infected objects to Quarantine: storage of potentially infected objects in the Quarantine folder, further scan using updated databases, restoration of objects from the storage upon the user's request.

## Backup Storage

Creation of a copy of each infected object to store in Backup Storage before disinfecting or deleting it, so that it can later be restored or further analyzed for investigation.

## Reports

Compilation of a detailed report on the performance of each Kaspersky Endpoint Security component.

## Notifications

Notification of the user about certain events which occur during the operation of Kaspersky Endpoint Security. You can select the notification for each event type, whether an audio or pop-up message.

You can change the appearance of the Kaspersky Endpoint Security by using various graphic elements and selected color solutions.

When working with Kaspersky Endpoint Security, you will be provided with complete information support: application returns messages on the protection status and offers detailed guidance. Security Assistant (on page [42](#)), included in the application package, provides a complete picture of the computer's current protection status and troubleshooting options.

**IN THIS SECTION:**

Distribution kit.....	<a href="#">18</a>
Hardware and software system requirements .....	<a href="#">18</a>

## DISTRIBUTION KIT

You can purchase Kaspersky Endpoint Security (boxed edition) from our resellers or in an online store (such as [www.kaspersky.com](http://www.kaspersky.com), eStore section).

If you buy the boxed version of the program, the package will include:

- A sealed envelope containing the installation CD containing the program files and documentation in PDF format.
- The end-user license agreement (EULA).

In addition, the package may include:

- A printed User Guide (if this item was included in the order) or a Product Guide.
- The program activation code, attached to the installation CD envelope.
- Registration card (with product serial number).

**Before breaking the seal on the installation disk envelope, carefully read through the License Agreement. By unsealing the envelope with the installation CD, you accept all the provisions of the License Agreement.**

When purchasing Kaspersky Endpoint Security online, you download the product from the Kaspersky Lab website, which includes this documentation. You will be sent a key file or activation code by email once payment has been made.

## HARDWARE AND SOFTWARE SYSTEM REQUIREMENTS

For the proper functioning of Kaspersky Endpoint Security, a computer should meet the following minimum requirements:

- Intel-based Mac computer (PowerPC processor not supported);
- 1 GB RAM;
- 500 MB of free hard drive space;
- Mac OS X 10.4.11 operating system, or higher, or Mac OS X Server 10.6.

To install Network Agent required for remote administration of Kaspersky Endpoint Security through Kaspersky Administration Kit, the user's computer must meet the following minimum requirements:

- Intel-based Mac computer (PowerPC processor not supported);
- 512 MB RAM;
- 30 MB free hard drive space;
- Mac OS X 10.4.11 operating system, or higher, or Mac OS X Server 10.6.

# INSTALLING THE APPLICATION

This section contains instructions that will help you to install the application on the computer locally. This section also describes the application uninstall procedure.

The Kaspersky Endpoint Security installation package includes the Installation Assistant and the Uninstall Assistant.

Remote administration of Kaspersky Endpoint Security through Kaspersky Administration Kit requires the Kaspersky Endpoint Security plugin to be installed on the administrator's workstation, and Network Agent to be installed on the user's computer (see section "Installing software required for remote administration of Kaspersky Endpoint Security" on page [110](#)). It is also possible to remotely install Kaspersky Endpoint Security on the user's computer (see section "Remote installation of Kaspersky Endpoint Security" on page [115](#)).

## IN THIS SECTION:

Preparing for installation.....	<a href="#">19</a>
Installing the application.....	<a href="#">19</a>
Preparing for use after installation.....	<a href="#">22</a>
Deleting the application.....	<a href="#">22</a>

## PREPARING FOR INSTALLATION

Before installing Kaspersky Endpoint Security on your computer, follow these preparatory steps:

- Make sure that your computer meets the minimum system requirements (see section "Hardware and software requirements" on page [18](#)).
- Check your computer's connection to the Internet. Internet access is needed to activate the application using the activation code and to download updates.
- Delete any existing anti-virus software to avoid system conflicts and maximize performance.

## INSTALLING THE APPLICATION

Two methods of Kaspersky Endpoint Security installation are available:

- Default installation (see section "Kaspersky Endpoint Security default installation" on page [20](#)).  
The default set of application components will be installed.
- Custom installation (see section "Kaspersky Endpoint Security custom installation" on page [21](#)).  
Recommended for experienced users and allows customizing installation of components.

## KASPERSKY ENDPOINT SECURITY DEFAULT INSTALLATION

➤ To perform default installation of Kaspersky Endpoint Security on your computer:

1. Open the contents of the Kaspersky Endpoint Security installation file. To do this, insert an installation CD into the disk drive.

If you purchased Kaspersky Endpoint Security in an online store, then an application installation package in .zip format will be available to download on the Kaspersky Lab website. Extract it and run the .dmg file to view the package contents.

2. Launch the Kaspersky Endpoint Security Installation Assistant. To do this, open the **Kaspersky Endpoint Security** installation package in the window containing the distribution package.

Follow the Installation Assistant's instructions to install the application.

3. In the **Introduction** window, click **Continue**.
4. In the **Read Me** window, read the information about the application.

Make sure that your computer meets the minimum system requirements. To print the information, click the **Print** button. To save the information as a text file, click the **Save** button. To proceed with the installation, click **Continue**.

5. In the **License** window, you can read the text of the Kaspersky Endpoint Security licensing agreement between you and Kaspersky Lab. The text of the agreement is available in several languages. To print the text of the agreement, click the **Print** button. To save the agreement as a text file, click the **Save** button.

If you agree with all the clauses in the agreement, click **Continue**. A window opens to request confirmation of your consent to the conditions of the licensing agreement. You can perform the following actions:

- Proceed with the installation of Kaspersky Endpoint Security. To do so, click the **Agree** button.
- Return to the text of the agreement. To do this, click the **Read license** button.
- Stop the installation. To do so, click the **Disagree** button.

6. In the **Installation Type** window, read the information about the drive on which the application will be installed and the volume of free disk space required.

To install the application using the recommended settings, click the **Install** button and enter the administrator's password to confirm your choice.

To select a different drive for installation, click the **Change location** button, select a different drive and then click **Continue**.

The drive used to install the application must be bootable. The minimum version, or higher, of the operating system specified in the system requirements (see section "Hardware and software requirements" on page 18) must be installed on the hard drive.

Wait until the Kaspersky Endpoint Security Installation Assistant installs the application components.

7. In the **Summary** window, read the information about the installation process and click the **Close** button to exit the Installation Assistant.

Kaspersky Endpoint Security starts up automatically when installation is complete. You do not have to restart the computer.

## KASPERSKY ENDPOINT SECURITY CUSTOM INSTALLATION

➤ To perform custom installation of Kaspersky Endpoint Security on your computer:

1. Open the contents of the Kaspersky Endpoint Security installation file. To do this, insert an installation CD into the disk drive.

If you purchased Kaspersky Endpoint Security in an online store, then an application installation package in .zip format will be available to download on the Kaspersky Lab website. Extract it and run the .dmg file to view the package contents.

2. Launch the Kaspersky Endpoint Security Installation Assistant. To do this, open the **Kaspersky Endpoint Security** installation package in the window containing the distribution package.

Follow the Installation Assistant's instructions to install the application.

3. In the **Introduction** window, click **Continue**.
4. In the **Read Me** window, read the information about the application.

Make sure that your computer meets the minimum system requirements. To print the information, click the **Print** button. To save the information as a text file, click the **Save** button. To proceed with the installation, click **Continue**.

5. In the **License** window, you can read the text of the Kaspersky Endpoint Security licensing agreement between you and Kaspersky Lab. The text of the agreement is available in several languages. To print the text of the agreement, click the **Print** button. To save the agreement as a text file, click the **Save** button.

If you agree with all the clauses in the agreement, click **Continue**. A window opens to request confirmation of your consent to the conditions of the licensing agreement. You can perform the following actions:

- Proceed with the installation of Kaspersky Endpoint Security. To do so, click the **Agree** button.
- Return to the text of the agreement. To do this, click the **Read license** button.
- Stop the installation. To do so, click the **Disagree** button.

6. In the **Installation Type** window, read the information about the drive on which the application will be installed and the volume of free disk space required.

To select a different drive for installation, click the **Change location** button, select a different drive and then click **Continue**.

The drive used to install the application must be bootable. The minimum version, or higher, of the operating system specified in the system requirements (see section "Hardware and software requirements" on page [18](#)) must be installed on the hard drive.

Click the **Customize** button to select application components for custom installation.

7. In the window that opens, specify which components are to be installed on the computer. Check the boxes next to the components that are not to be installed.

- **Virus Scan**. Scans objects in the user-defined scopes.

This component of Kaspersky Endpoint Security is always installed by default.

- **File Anti-Virus**. Scans all objects opened, executed or saved in real-time.

- **Finder Context Menu.** Scans objects displayed in Finder. Scans are started from the object context menu.
- **Connector for Network Agent.** Necessary for remote administration of the program through Kaspersky Administration Kit.

Once the components are selected, click the **Install** button and enter the administrator's password to confirm the installation. To return to the default installation settings (see section "Kaspersky Endpoint Security default installation" on page [20](#)), click the **Standart installation** button.

Wait until the Kaspersky Endpoint Security Installation Assistant installs the selected application components.

8. In the **Summary** window, read the information about the installation process and click the **Close** button to exit the Installation Assistant.

Kaspersky Endpoint Security starts up automatically when installation is complete. You do not have to restart the computer.

## PREPARING FOR USE AFTER INSTALLATION

After Kaspersky Endpoint Security has been installed, we recommend that you take the following actions:

- Activate Kaspersky Endpoint Security (see section "Kaspersky Endpoint Security activation" on page [27](#)). Using a licensed version will let you update the application's databases on a regular basis and access Technical Support Service.
- Assess the current protection status (see section "Protection status overview" on page [41](#)) to make sure that Kaspersky Endpoint Security is set at the right protection level.
- Update Kaspersky Endpoint Security (see section "How to update databases and application modules" on page [45](#)). It is important to keep the Kaspersky Endpoint Security databases up-to-date so that the application is able to detect and deal with malware.
- Run a full computer virus scan (see section "How to perform a full computer virus scan" on page [43](#)).

If you encounter any problems or errors in the operation of the application, open the Kaspersky Endpoint Security operation report window (see section "Reports" on page [94](#)). The cause may be described in the report. If you cannot solve the problem on your own, please contact Kaspersky Lab Technical Support Service (see section "Contacting Technical Support Service" on page [152](#)).

## DELETING THE APPLICATION

By uninstalling Kaspersky Endpoint Security, you will expose your computer to a serious risk of infection.

Before uninstalling the application, we recommend that you process all objects stored in Quarantine and Backup Storage. All stored objects that have not been processed will be deleted without any opportunity to restore them in the future.

➔ *To remove Kaspersky Endpoint Security from your computer:*

1. Open the contents of the Kaspersky Endpoint Security installation file. To do this, insert an installation CD into the disk drive

If you purchased Kaspersky Endpoint Security in an online store, then an application installation package in .zip format will be available to download on the Kaspersky Lab website. Extract it and run the .dmg file to view the

package contents.

2. Launch the Kaspersky Endpoint Security Uninstaller. To do this, select the **Kaspersky Endpoint Security Uninstaller** in the window that contains the contents of the installation file.

Follow the steps to uninstall the application.

3. In the **Introduction** window, click **Continue**.
4. In the **Information** window, read the important information. To start the uninstallation procedure, click the **Delete** button and enter the administrator's password to confirm. Wait until the application removal is complete.
5. In the **Summary** window, read the information about the uninstallation process termination and click the **Finish** button to exit the Uninstall Assistant.

There is no need to reboot the computer after the Kaspersky Endpoint Security uninstall process.

# LICENSE MANAGEMENT

This section contains information regarding the basic concepts used in the context of the application licensing. This section describes how to activate the application, where to view information about the current license, and how to purchase and renew a license.

## IN THIS SECTION:

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About license.....	<a href="#">24</a>
Viewing license information.....	<a href="#">25</a>
Purchasing a license.....	<a href="#">25</a>
Renewing a license.....	<a href="#">26</a>
About End User License Agreement.....	<a href="#">27</a>
About the activation code.....	<a href="#">27</a>
About the key file.....	<a href="#">27</a>
Kaspersky Endpoint Security activation.....	<a href="#">27</a>

## ABOUT LICENSE

*License* – this is the right to use Kaspersky Endpoint Security and the additional related services provided by Kaspersky Lab and its partners.

Each license is defined by its validity period and type.

*License term* – a period during which the additional services are offered:

- technical support;
- update databases and application modules.

The services available depend on the type of license.

There are two types of license:

- *Trial* – a free license with a limited validity period, for example, 30 days, offered as an introduction to Kaspersky Endpoint Security.

Trial license can be used only once.

If you have a trial license, you may contact Technical Support Service only if your question is about activating the product or purchasing a commercial license. As soon as the trial license expires, all Kaspersky Endpoint Security features become disabled. To proceed with the application, you should activate it (see section "Kaspersky Endpoint Security activation" on page [27](#)).

- *Commercial* – paid license with a limited validity period (for example, one year).

All functions and additional services are available during the validity period of a commercial license.




As soon as a commercial license expires, Kaspersky Endpoint Security remains a full-featured application, but the anti-virus databases are not updated. As before, you will be able to scan your computer for viruses and use the protection components, but using only the anti-virus databases you had when the license expired. To protect your computer from infection with new viruses, we recommend that you renew your application license.

After you have activated the application with the commercial license, you can purchase the additional license for Kaspersky Endpoint Security and activate it. In this case, when the active license expires, the additional license will automatically replace it, thus allowing the application to keep running without any changes. Only one additional license can be activated for Kaspersky Endpoint Security.

## VIEWING LICENSE INFORMATION

➔ To view information about your current license,

open the main application window (on page [32](#)) and click the  button.

License number and type (commercial or trial), maximum number of hosts, expiration date and time, and days remaining until the expiration are all displayed in the window that opens (see figure below).

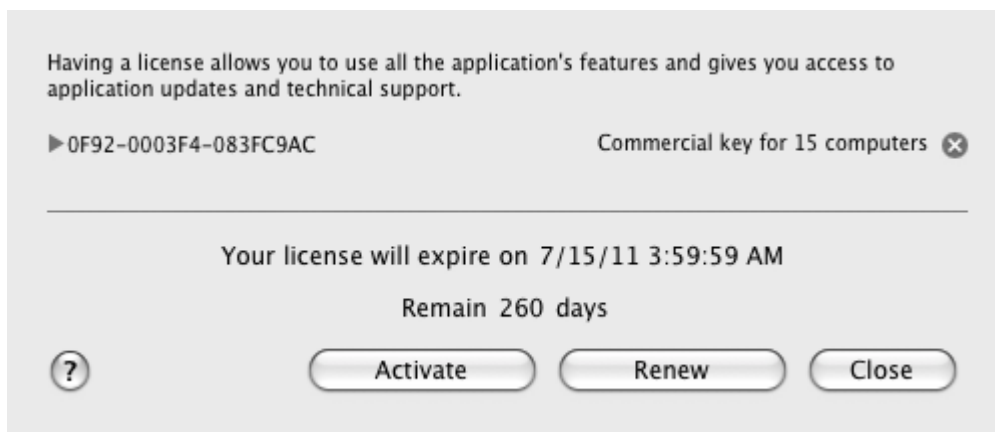



Figure 1. License management

If there is no license, Kaspersky Endpoint Security will notify you of this. If the application is not activated, you can start the activation procedure (see section "Kaspersky Endpoint Security activation" on page [27](#)). If the trial version of the application is activated, you can purchase the commercial license (see section "Purchasing a license" on page [25](#)). If your commercial license expires, you can renew it (see section "Renewing a license" on page [26](#)).

## PURCHASING A LICENSE

➔ To purchase a new license:

1. Open the main application window (on page [32](#)) and click the  button.
2. In the window that opens (see figure below), click the **Purchase** button.

The web page that opens contains all the information on purchasing a key through Kaspersky Lab eStore or corporate partners. On purchasing a license at Kaspersky Lab eStore, an activation code for Kaspersky Endpoint Security (see section "About activation code" on page [27](#)) will be sent to the email address that you have specified in the order form.




Figure 2. Purchasing a license

## RENEWING A LICENSE

The application license needs to be renewed when the current license expires. In this case, Kaspersky Endpoint Security keeps performing all of its operations but anti-virus databases are no longer updated.

➔ To renew your current license:

1. Open the main application window (on page [32](#)) and click the  button.
2. In the window that opens (see figure below), click the **Renew** button.

The web page that opens contains all the information on license renewal through Kaspersky Lab eStore or corporate partners. On renewing a license at Kaspersky Lab eStore, an activation code for Kaspersky Endpoint Security (see section "About activation code" on page [27](#)) to the email address that you have specified in the order form.

Kaspersky Lab regularly organizes special pricing offers on license renewals for our products. Check for special offers at Kaspersky Lab website, in the **Products** → **Sales and special offers** section.



Figure 3. License management

## ABOUT END USER LICENSE AGREEMENT

*End User License Agreement* – is an agreement between a natural or legal person lawfully in possession of a copy of Kaspersky Endpoint Security and Kaspersky Lab. The EULA is included in each Kaspersky Lab application. It provides detailed information on the rights and usage restrictions of Kaspersky Endpoint Security.

## ABOUT THE ACTIVATION CODE

*Activation code* is a code supplied with Kaspersky Endpoint Security commercial license. This code is required for application activation.

The activation code represents a sequence of Latin characters and digits divided by hyphens into four groups of five symbols without spaces. For example, 11111-11111-11111-11111.

## ABOUT THE KEY FILE

The availability of Kaspersky Endpoint Security is ensured by a *key file*. You are provided with a key file on the basis of the activation code (see section "About the activation code" on page [27](#)) obtained when purchasing the application; it entitles you to use the latter starting from the day of activation. The key file contains information about the license: the type, date of expiry and number of hosts.

## KASPERSKY ENDPOINT SECURITY ACTIVATION

Before activating Kaspersky Endpoint Security, make sure that the current system date value on your computer matches the actual date and time.

The activation procedure consists of installing a key file (see section "About the key file" on page [27](#)) that Kaspersky Endpoint Security applies to verify the rights for the use of the application and define the term of its use.

The application is activated using the Activation Assistant. Follow these steps to activate the application.

At any stage in the Activation Wizard you can click the **Cancel** button to interrupt the activation. The Activation Wizard will close. If the application has not been activated, all options of Kaspersky Endpoint Security are available, except the retrieval of updates. The application can be updated only once after installation.

### IN THIS SECTION:

Activating the application with an activation code .....	<a href="#">28</a>
Activating the application with a key file .....	<a href="#">29</a>


## ACTIVATING THE APPLICATION WITH AN ACTIVATION CODE

Use this activation option if you have been provided with an activation code when purchasing the application. Using this activation code, you will obtain a key file which provides access to the functionality of Kaspersky Endpoint Security throughout the license validity period.

If you have been provided with an activation code for the trial version of the application, you will receive a free key with a term of validity limited to the trial license. You can activate the trial version of the application only if this version of Kaspersky Endpoint Security has never been installed on your computer.

Your computer must be connected to the Internet. If the Internet connection is currently unavailable, you can activate the trial version later.

➤ To activate the application with your activation code, do the following:

1. Open the main application window (on page [32](#)) and click the  button.
2. In the window that opens, click the **Activate** button. This launches the Activation Assistant. Follow these steps to activate the application.
3. In the **Activation method** window, select **Activate using activation code**.
4. In the **Enter activation code** window, enter the activation code that you received when you purchased Kaspersky Endpoint Security.

The activation code is a sequence of numbers and letters delimited with hyphens in four groups of five symbols without spaces, for example: 11AA1-11AAA-1AA11-1A111. Please note that the activation code should only be entered in Latin characters.

5. In the **Obtaining key file** window, wait until the Activation Assistant establishes connection with Kaspersky Lab servers and sends data for verification. If the activation code is verified, the Assistant downloads and installs the key file.

Kaspersky Endpoint Security does not download a physical key file (with key extension) from the server, but receives the relevant information to save in the operating system. To obtain a real key file, you should go through the registration procedure on the Kaspersky Lab website (<http://support.kaspersky.com/>).

If the activation code is not verified, the Assistant will display this information on the screen. In this case, contact the software vendor you purchased Kaspersky Endpoint Security from for details.


6. In the **Key file information** window, the Activation Assistant notifies you of the successful completion of the activation process. In addition, information about the installed key is displayed, including key number, key type (commercial or trial), and the license key's expiration date. Click the **Finish** button to close the Activation Assistant.

## ACTIVATING THE APPLICATION WITH A KEY FILE

Use this option to activate the application with an existing key file.

If you have selected the activation using a key file, no Internet connection is required. We recommend that you use this method of application activation if the Internet connection cannot be established, or if it is temporarily unavailable.

➤ *To activate the application with an existing key file:*

1. Open the main application window (on page [32](#)) and click the  button.
2. In the window that opens, click the **Activate** button. This launches the Activation Assistant. Follow these steps to activate the application.
3. In the **Activation method** window, select **Use existing key file**.
4. In the **Select key file** window, click the **Select** button and select the key file in the window that opens. Information about the current key will be displayed in the bottom part of the window, including the key number, the key type (commercial or trial), and the license key expiration date.
5. In the **Key file information** window, the Activation Assistant notifies you of the successful completion of the activation process. In addition, information about the installed key is displayed, including the key number, key type, and the license key's expiration date. Click the **Finish** button to close the Activation Assistant.

# APPLICATION INTERFACE

This section contains description of the basic GUI components of the application: icon and context menu, main application window, settings window, and notification windows.

## IN THIS SECTION:

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Kaspersky Endpoint Security icon .....	<a href="#">30</a>
Main application window .....	<a href="#">32</a>
Application preferences window .....	<a href="#">34</a>
Notification windows and pop-up messages .....	<a href="#">35</a>
Configuring the Kaspersky Endpoint Security interface .....	<a href="#">37</a>

## KASPERSKY ENDPOINT SECURITY ICON

Immediately after Kaspersky Endpoint Security is installed, its icon appears in the Menu Bar. This icon is an indicator of the application's operation. If the icon is active, it means that real-time protection against malware is enabled for the computer's file system. The inactive icon indicates that the protection is disabled. In addition, the icon's context menu provides access to the basic commands in Kaspersky Endpoint Security: enabling and updating the computer's file system protection, launching update task or anti-virus scan, opening the settings window, etc.

By default, the icon is located on the Menu Bar. You can modify the application's preferences so that the Kaspersky Endpoint Security icon is displayed in the Dock panel or not displayed at all.

◆ *To display the application icon in the Dock quick launch panel:*

1. Open the application preferences window (on page [34](#)) and select the **Appearance** section (see figure below).
2. In the **Show application icon** section select the **In Dock** option.

◆ *To remove the application icon:*

1. Open the application preferences window (on page [34](#)) and select the **Appearance** section (see figure below).
2. In the **Show application icon** section, select **Nowhere**.

Note that this modification will take place only after Kaspersky Endpoint Security is restarted.

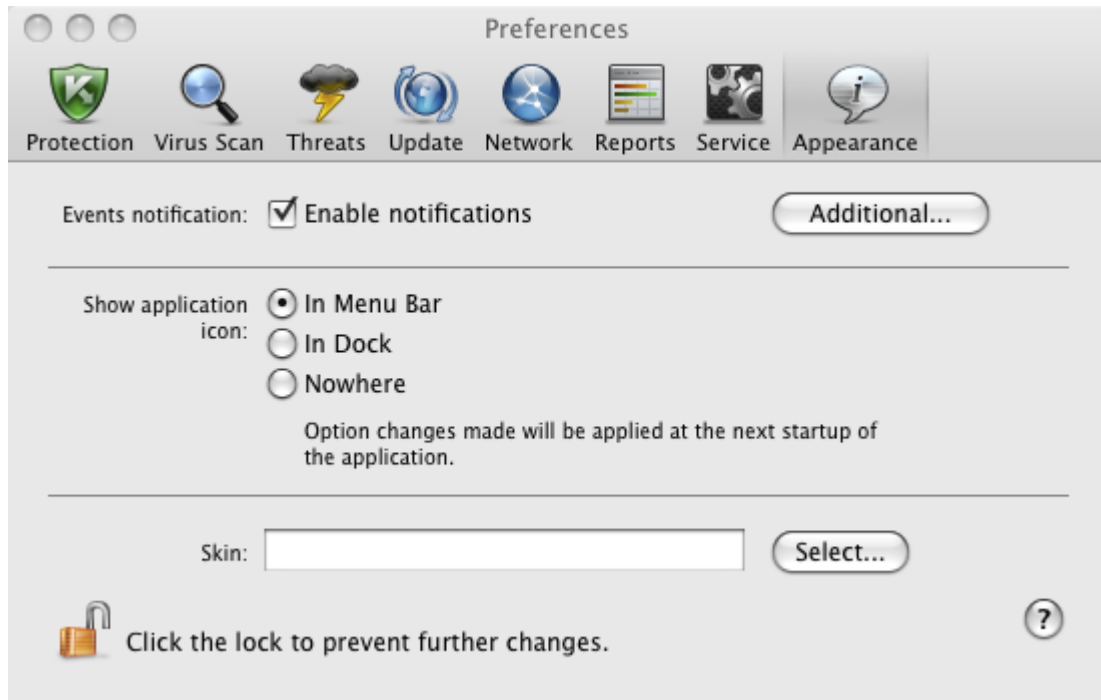


Figure 4. Application preferences window. Appearance

If you selected the option to display the application icon in the menu bar, the icon will not appear in Dock when the application is started or the main window is opened. The **Command-Tab** key combination to switch to the application is also unavailable.

If the application icon is disabled, the program will run in background mode. To open the main application window (on page 32), click the Kaspersky Endpoint Security icon on the list of applications installed on the computer.

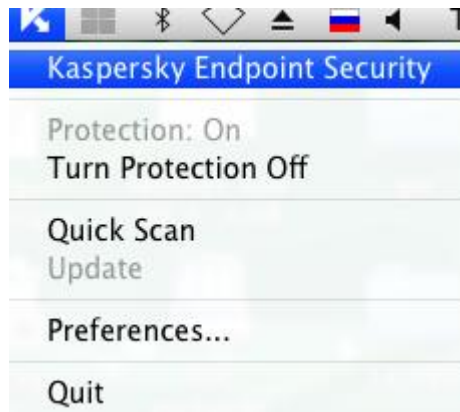


Figure 5. Context menu of the Kaspersky Endpoint Security icon in the Menu Bar

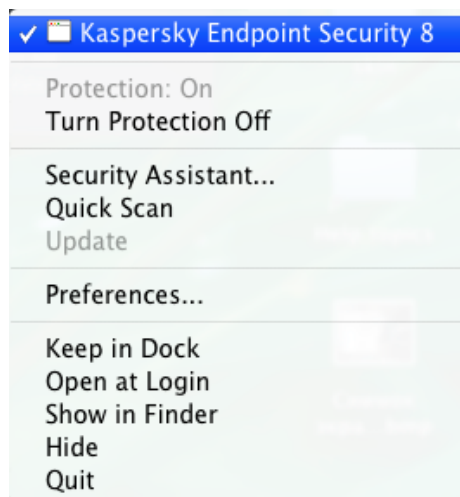


Figure 6. Context menu of the Kaspersky Endpoint Security icon in the Dock

## MAIN APPLICATION WINDOW

➔ To open the main application window,

click the Kaspersky Endpoint Security icon in the Menu Bar or in the Dock (see figure above), and select **Kaspersky Endpoint Security** from the context menu that opens.



The basic task of the Kaspersky Endpoint Security main window (see figure below) is to inform the user of the computer's protection status and any related problems, to provide information about software components (File Anti-Virus, Virus Scan and Update task), and to ensure access to the main tasks and the settings window.



Figure 7. Kaspersky Endpoint Security 8 main window

There are three possible protection status values (see section "Protection status overview" on page 41), which use a traffic-light color scheme. The color of the main window indicator shows the current protection status. Green indicates that your computer's protection is at an optimal level, while yellow and red warn of the presence of various problems related to Kaspersky Endpoint Security configuration or operation. For more detailed information on these problems and how to fix them, use the Security Assistant (see section "Security Assistant" on page 42) that opens when you click on the color indicator.

In addition to the color indicator, the left part of the main window contains a block of text which describes the protection status, and lists any security threats logged by the Security Assistant. If a virus scan or update task is running, information on their progress (percentage completion) will also be displayed in the left part of the main window.

The lower part of the window displays summary statistics on the operation of File Anti-Virus and information about the databases used by the application.

You can update Kaspersky Endpoint Security, start a user-defined virus scan and switch to the license management area from the main window. To do so, use the following buttons:



Launch Kaspersky Endpoint Security update. At the end of the update the report window (see section "Reports" on page 94) will show detailed information about the task execution.



Switch to virus scan tasks: **Quick Scan**, **Full Scan**, and **Virus Scan** in an area specified by the user, as well as all custom virus scan tasks if any of them have been created. At the end of the update the report window (see section "Reports" on page 94) will show detailed information about the task execution.



Switch to the window that displays information about the current license.

The top part of the main window contains a navigation panel with the following buttons:



Open the report window (see section "Reports" on page [94](#)) of Kaspersky Endpoint Security and obtain access to Quarantine (see section "Quarantine" on page [90](#)) and Backup (see section "Backup Storage" on page [92](#)).



Open the application preferences window (on page [34](#)).




Open the Kaspersky Endpoint Security help system.



Open the Technical Support window (see section "Contacting Technical Support Service" on page [152](#)).

## APPLICATION PREFERENCES WINDOW

The Kaspersky Endpoint Security preferences window (see figure below) can be opened as follows:

- by clicking the  button in the main application window (see section "Main application window" on page [32](#));
- by selecting **Preferences** in the context menu that opens on clicking the Kaspersky Endpoint Security icon (on page [30](#)) in the Dock or Menu Bar.

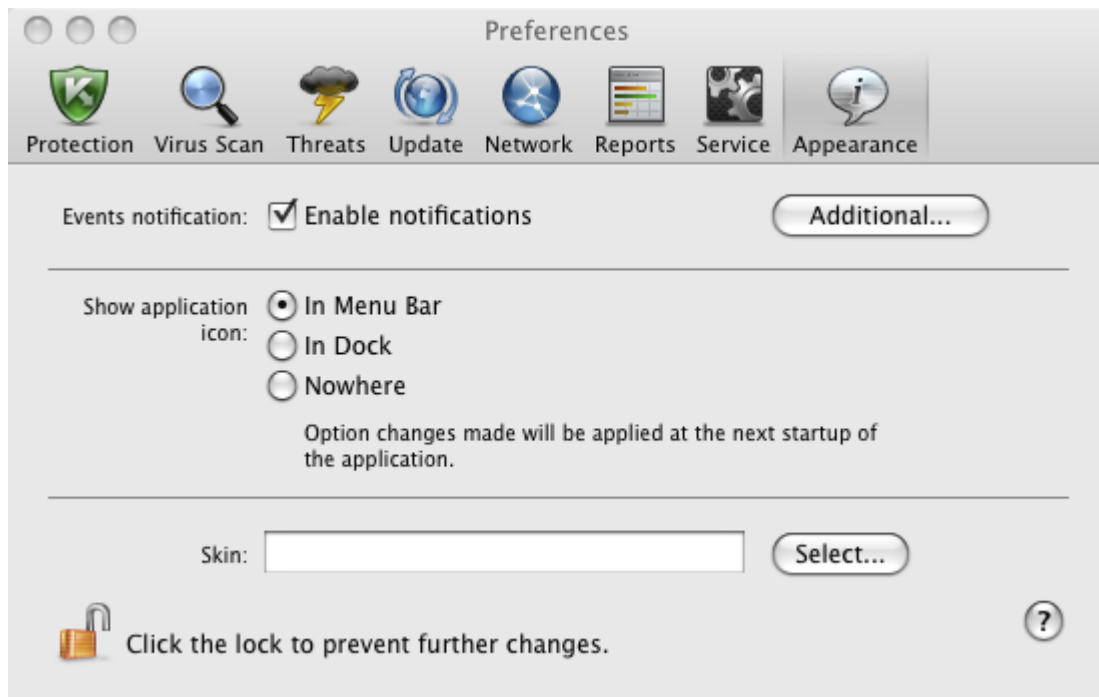




Figure 8. Application preferences window. Appearance

The tabs in the top part of the window provide quick access to the following options of the application:

- configuration of File Anti-Virus;
- configuration of virus scan tasks;
- configuration of application updates;
- selection of malicious programs to control and creation of a trusted zone;
- service settings of Kaspersky Endpoint Security.

To fine-tune certain settings, you will need to open the second- and third-level settings windows.

To prevent unauthorized users from modifying the Kaspersky Endpoint Security settings, click the  button in the bottom part of the window. You will need to enter the administrator's username and password to remove the restrictions on modifying the settings.

The  button provides access to the Kaspersky Endpoint Security help system with a description of the settings for the current application window.

## NOTIFICATION WINDOWS AND POP-UP MESSAGES

Different events can occur during the operation of Kaspersky Endpoint Security. They may be of an informative nature or contain important information. For example, an event may notify the user of a successful update or of an error in File Anti-Virus or during a virus scan that requires urgent attention. The application will inform you of new events with *notification windows* and *pop-up messages*.

### IN THIS SECTION:

About notifications .....	<a href="#">35</a>
Methods of receiving notifications .....	<a href="#">35</a>
Configuring receipt of notifications .....	<a href="#">36</a>
About pop-up messages .....	<a href="#">37</a>

## ABOUT NOTIFICATIONS

When active, Kaspersky Endpoint Security notifies you of new events of the following types:

- **Critical events** are events of critical importance, notifications about which should be received since they indicate problems in the operation of Kaspersky Endpoint Security operation or vulnerabilities in the protection of your computer: for example, *application databases are out of date* or *license expired*.
- **Functional failure** – events that disable Kaspersky Endpoint Security: for example, *application databases corrupted*.
- **Important events** are events that should be paid attention to since they reflect important situations in the operation of Kaspersky Endpoint Security: for example, *protection is disabled* or the *computer has not been scanned for viruses for a long time*.
- **Information events** are reference-type messages, for example, *all dangerous objects disinfected*.

To keep track of events that occur during operation of Kaspersky Endpoint Security, use the notification service.

## METHODS OF RECEIVING NOTIFICATIONS

Notifications can be delivered using one or both of the following:

- pop-up messages on screen;
- audio message.

Kaspersky Endpoint Security supports Growl notifications. If Growl is enabled, it is used to display onscreen messages.

## CONFIGURING RECEIPT OF NOTIFICATIONS

➤ To receive notifications about events, do the following:

1. Open the application preferences window (on page 34) and select the **Appearance** section (see figure below).

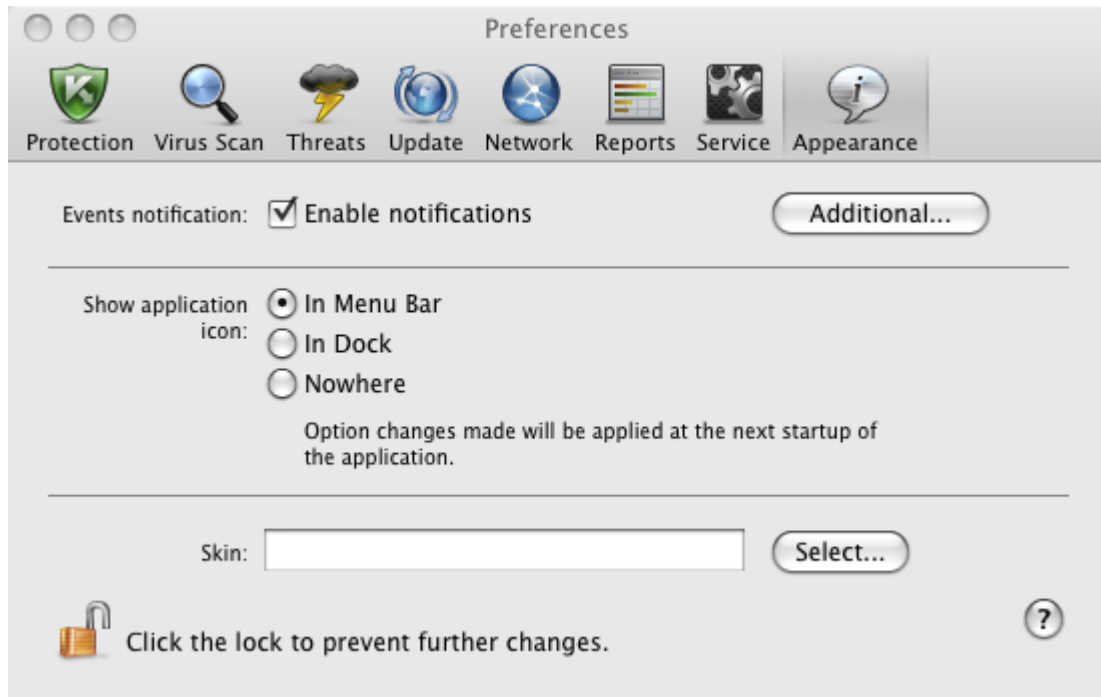


Figure 9. Application preferences window. Appearance

2. Check the **Enable notifications** box in the **Events notification** section and switch to advanced settings. To do so, click the **Additional** button.

In the window that opens (see figure below), you may configure the following types of notifications about events listed above:

- *Pop-up message on screen*, which contains information about an event that has occurred.

To use this notification type, check the box in the **Balloon** field next to the event you want to be notified of.

- *Audio message*.

If you want this notification to be accompanied by a sound file, check the box in the **Sound** field next to the event name.

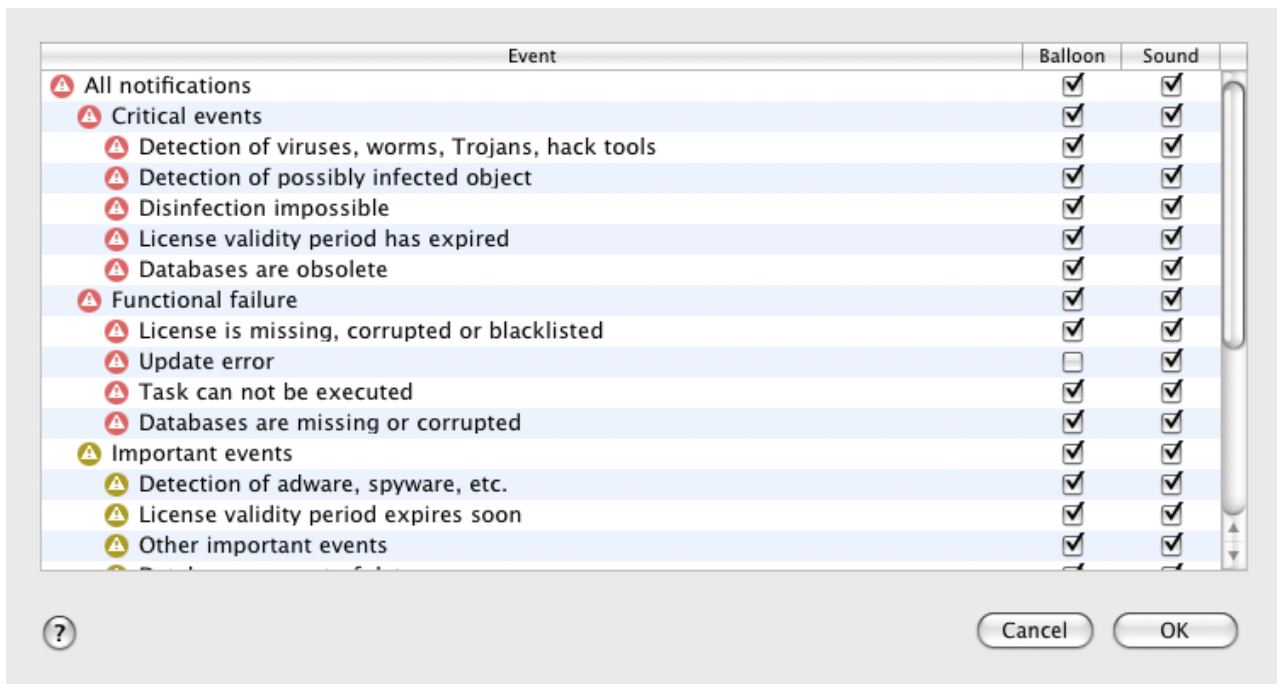


Figure 10. Configuring receipt of notifications

## ABOUT POP-UP MESSAGES

*Pop-up messages* are displayed on the screen by Kaspersky Endpoint Security to inform you of events that do not require the obligatory selection of an action. Pop-up messages appear under the application icon in the Menu Bar and automatically disappear from the screen shortly after.

## CONFIGURING THE KASPERSKY ENDPOINT SECURITY INTERFACE

You can change the appearance of Kaspersky Endpoint Security by creating and using various graphics and color schemes. All the colors, fonts, icons and texts used in the application interface can be changed.

◆ To enable the graphics shell, do the following:

1. Open the application preferences window (on page [34](#)) and select the **Appearance** section (see figure below).

2. In the **Skin** section, click the **Select** button and in the window that opens select the folder containing the skin files.

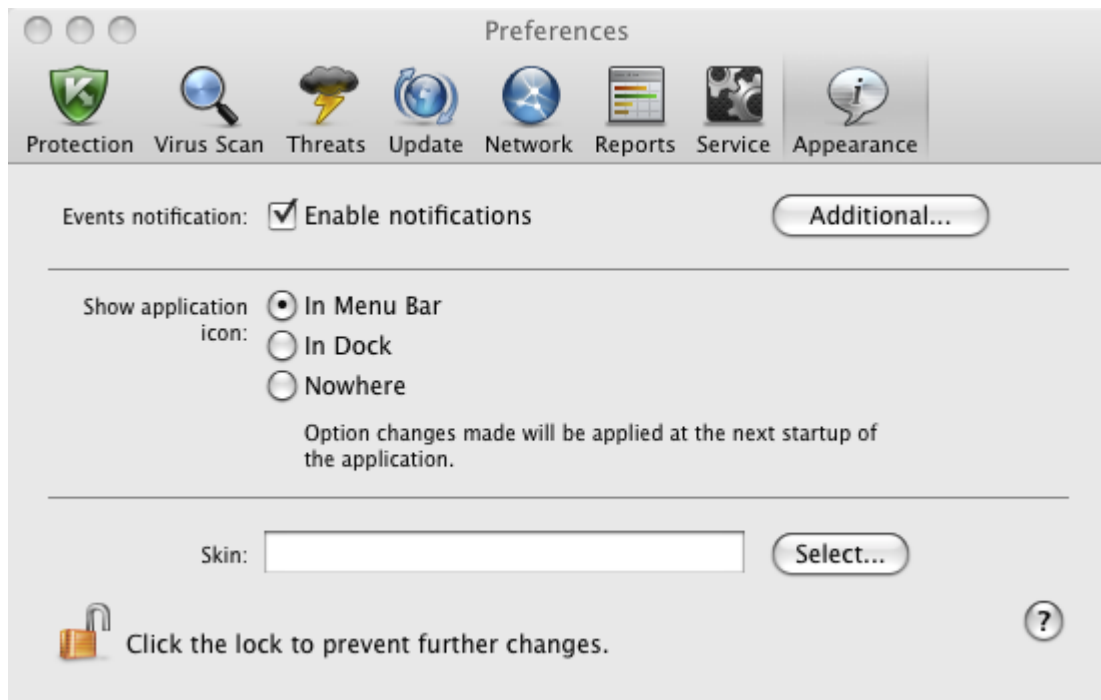


Figure 11. Application preferences window. Appearance

# STARTING AND STOPPING THE APPLICATION

This section provides you with information about how to launch the application and close it.

The application launches immediately after the installation, and the Kaspersky Endpoint Security icon (on page [30](#)) appears in the Menu Bar.

## IN THIS SECTION:

---

Closing Kaspersky Endpoint Security .....	<a href="#">39</a>
Configuring the automatic startup of Kaspersky Endpoint Security .....	<a href="#">39</a>
Configuring the power-saving mode.....	<a href="#">40</a>

## CLOSING KASPERSKY ENDPOINT SECURITY

If you need to close Kaspersky Endpoint Security for any reason, click the Kaspersky Endpoint Security icon (on page [30](#)) in the Mac OS Menu Bar or in the Dock, and in the menu that opens, select the **Quit** command. The application's operation will be stopped, the process will be discarded from the computer's RAM.

After Kaspersky Endpoint Security shuts down, the computer will continue to operate in unprotected mode and may be at risk of infection.

## CONFIGURING THE AUTOMATIC STARTUP OF KASPERSKY ENDPOINT SECURITY

By default, Kaspersky Endpoint Security starts up automatically when the computer is switched on or rebooted.

➤ *To disable automatic start-up, do the following:*

1. Open the application preferences window (on page [34](#)), select the **Service** tab (see figure below).

- In the **Autorun** section uncheck the **Launch application at computer startup** box.

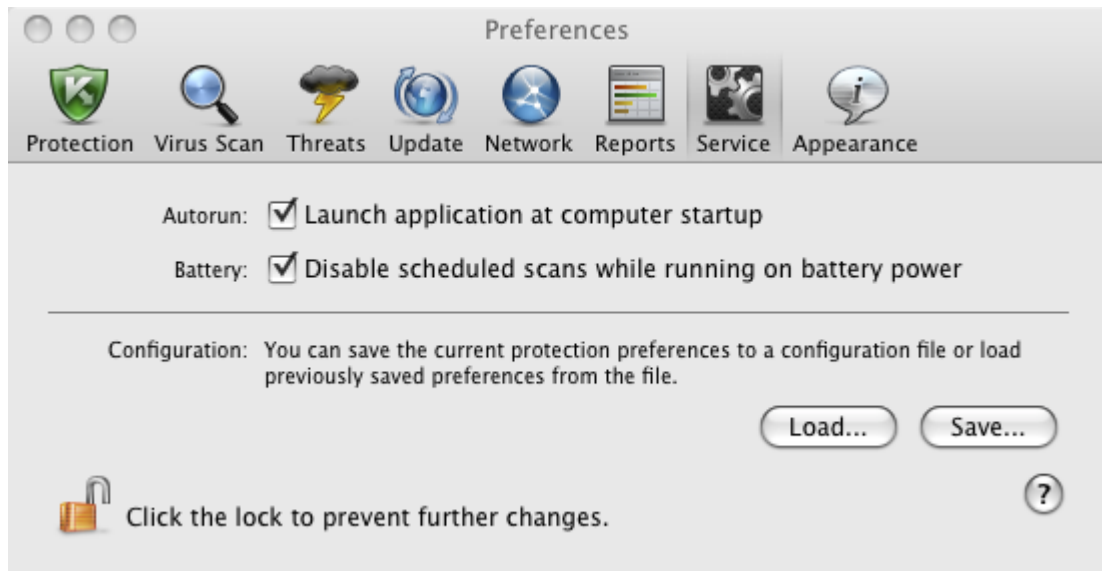


Figure 12. Application preferences window. Service

Disabling the automatic launch mode of Kaspersky Endpoint Security results in unprotected operation mode of your computer next time it is turned on, which may expose it to a risk of being infected.

## CONFIGURING THE POWER-SAVING MODE

By default, Kaspersky Endpoint Security runs in power-saving mode. In this mode, the virus scan task for which the schedule is set will not start if a computer is powered with a battery.

➤ To disable the power-saving mode:

- Open the application preferences window (on page [34](#)), select the **Service** tab (see figure below).
- In the **Battery** section, uncheck the **Disable scheduled tasks while running on battery power** box.

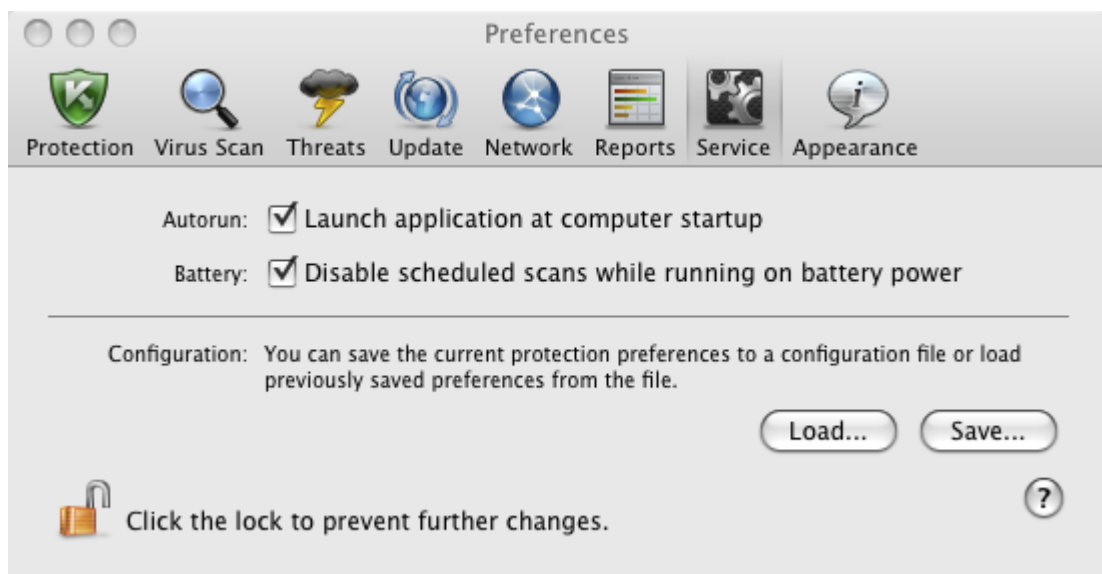


Figure 13. Application preferences window. Service



# COMPUTER PROTECTION STATUS

Your computer's protection state gives you a summary of your computer's overall security level. These threats include malicious programs, outdated databases, the disabling of File Anti-Virus, the use of minimum Kaspersky Endpoint Security protection settings, etc.

The Security Assistant lets you review all the current threats and begin to eliminate them.

## IN THIS SECTION:

---

Assessing the computer's protection status .....	<a href="#">41</a>
Security Assistant.....	<a href="#">42</a>

## ASSESSING THE COMPUTER'S PROTECTION STATUS

The computer's protection status is displayed in the main application window (see section "Main application window" on page [32](#)) in the form of a traffic-light color scheme. Depending on the situation, the color scheme of the window will change. If any security threats are detected, the change of the color is supplemented by a text message.

The main application window's color, acting as a security indicator, can take the following values:

- **Green.** Your computer's protection is at the appropriate level.

This means that the databases have been recently updated, File Anti-Virus is enabled, Kaspersky Endpoint Security is running with the settings recommended by Kaspersky Lab, and either no malicious objects have been discovered by a virus scan or all detected malicious objects have been disinfected.

- **Yellow.** Your computer's protection level is reduced.

This protection status indicates certain problems with the performance or settings of Kaspersky Endpoint Security. Such problems include, for example: slight deviations from the recommended operation settings, or the Kaspersky Endpoint Security databases have not been updated for several days.

- **Red.** Your computer is at risk of infection.

This state indicates that there are problems which may lead to the infection of your computer and the loss of data. Such problems include, for example: a failure in File Anti-Virus's operation; the Kaspersky Endpoint Security databases have not been updated for a long time; malicious objects have been detected and urgently need to be disinfected, or the application has not been activated.

If there are problems in the protection system, you are advised to fix them immediately. To do this, click the color indicator in the main window to launch the Security Assistant (on page [42](#)).

## SECURITY ASSISTANT

*Security Assistant* is a service that allows users to analyze existing threats and troubleshoot them (see figure below).

➤ To launch the *Security Assistant*,

click the color indicator in the main application window (see section "Main application window" on page [32](#)).



Figure 14. *Security Assistant* interface

To browse the list of existing threats, click the **Continue** or **Go Back** buttons. A detailed description is provided for each threat, and the following actions are available:

- **Eliminate threat immediately.**

To eliminate a threat, click the button with the recommended action. For example, if infected objects have been detected on the computer, the recommended action will be **Disinfect infected objects**. If the anti-virus database used by the application are out of date, the recommended action is **Update databases**. Detailed information about threats can be found in the report window (see section "Reports" on page [94](#)).

- **Postpone threat elimination.**

If you do not want to eliminate the threat immediately for some reason, you can postpone the action and return to it later. To do so, use the **Postpone** button. Note that this feature does not cover such dangerous threats as persistence of malicious objects that have not been processed, failures in File Anti-Virus operation, or corruption of Kaspersky Endpoint Security databases.

If you close the *Security Assistant* without eliminating all serious threats, the color indicator in the main application window will signalize that there is a problem. If you postpone the elimination of some threats, they will not be present in the list of active threats when *Security Assistant* is opened for the next time. However, you can still return to view and eliminate postponed threats by clicking the **View postponed threats** button in the last window of the *Security Assistant*.

# SOLVING TYPICAL TASKS

This section describes the tasks encountered by the most users when working with the application as well as the procedures developed for carrying out these tasks.

## IN THIS SECTION:


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How to perform a full scan of your computer for viruses .....	<a href="#">43</a>
How to perform a quick scan of your computer .....	<a href="#">44</a>
How to scan a file, folder or disk for viruses .....	<a href="#">44</a>
How to configure a scheduled scan of your computer .....	<a href="#">44</a>
How to purchase or renew license .....	<a href="#">45</a>
How to update application databases and modules .....	<a href="#">45</a>
How to export the application preferences to Kaspersky Endpoint Security installed on another computer .....	<a href="#">45</a>
What to do if file access is blocked .....	<a href="#">46</a>
What to do if you suspect an object of being infected with a virus .....	<a href="#">47</a>
How to restore an object that has been deleted or disinfected by the application .....	<a href="#">47</a>
How to view the report on the application's operation .....	<a href="#">48</a>
What to do when the application's notifications appear .....	<a href="#">48</a>

## HOW TO PERFORM A FULL SCAN OF YOUR COMPUTER FOR VIRUSES

The full scan task created by default is included in Kaspersky Endpoint Security. While running this task, the application scans all hard drives for viruses.

► *To launch a full computer scan, do the following:*

1. Open the main application window (on page [32](#)) and click the  button.


2. In the menu that opens, select the  **Full Scan** task.


You can view the scan results in the report window (see section "Virus scan statistics" on page [78](#)).

## HOW TO PERFORM A QUICK SCAN OF YOUR COMPUTER

The quick scan task created by default is included in Kaspersky Endpoint Security. While running this task, the application performs virus scan of critical areas of your computer, such as folders containing operating system files and system libraries, which may, when infected with malware, cause corruption of your operating system.

➤ To launch a full computer scan, do the following:

1. Open the main application window (on page [32](#)) and click the  button.


2. In the menu that opens, select  **Quick scan**.


You can view the scan results in the report window (see section "Virus scan statistics" on page [78](#)).

## HOW TO SCAN A FILE, FOLDER OR DISK FOR VIRUSES

If you want to scan an individual object (such as a hard drive, folder, file, or removable device) for viruses, use the integrated **Virus Scan** task.

➤ To scan an individual object for viruses, do the following:

1. Open the main application window (on page [32](#)) and click the  button.

2. In the menu that opens, select the  **Virus Scan** task. A window opens to select objects to be scanned.
3. Create a list of objects to be scanned (see section "Creating a list of objects to scan" on page [69](#)) and click the **Start** button to run the virus scan.

You can view the scan results in the report window (see section "Virus scan statistics" on page [78](#)).

You can launch a virus scan of any object on your computer from the Finder application if the **Finder Contextual Menu** application component has been installed (see section "**Kaspersky Endpoint Security custom installation**" on page [21](#)). To do this, open the context menu of the object and select **Scan for viruses**<sup>1</sup>.

## HOW TO CONFIGURE A SCHEDULED SCAN OF YOUR COMPUTER

Timely virus scans ensure your computer is kept secure. You can create a scheduled virus scan using the tasks: **Quick scan** and **Full scan**. In accordance with set mode, the application will automatically perform a scan of the whole computer or the most critical areas of its file system.

➤ To configure a scheduled **Quick Scan** or **Full Scan** task:

1. Open the application preferences window (on page [34](#)) and select the **Virus Scan** tab.
2. In the list to the left, select a task name and enable scheduled run of the task in the **Run mode** section. To edit the startup schedule, click the **Edit** button.
3. In the window that opens, set the frequency with which the scan task will run.


<sup>1</sup> In Mac OS X operating systems (version 10.6 or earlier), the startup procedure may differ.

You can view the task completion results in the report window (see section "Virus scan statistics" on page [78](#)).

## HOW TO PURCHASE OR RENEW LICENSE


If you have installed Kaspersky Endpoint Security without a license, you can purchase one after installation. When your current license expires, you can renew it. When purchasing or renewing a license, you receive an activation code that you should use to activate the application (see section "Kaspersky Endpoint Security activation" on page [27](#)).

➤ *To purchase a license:*

1. Open the main application window (on page [32](#)) and click the  button.
2. In the window that opens, click the **Purchase** button.

The eStore web page opens where you can purchase a license.

➤ *To renew a license:*

1. Open the main application window (on page [32](#)) and click the  button.
2. In the window that opens, click the **Renew** button.

The eStore web page opens where you can renew a license.


## HOW TO UPDATE APPLICATION DATABASES AND MODULES

Kaspersky Lab updates anti-virus databases and modules of Kaspersky Endpoint Security using dedicated update servers and Kaspersky Administration Kit Administration Server. *Kaspersky Lab's update servers* are Kaspersky Lab's Internet sites to which the Kaspersky Endpoint Security updates are uploaded on regular bases.

An Internet connection is required to download updates from the servers.

By default, Kaspersky Endpoint Security periodically checks for updates on Kaspersky Lab's servers. If Kaspersky Endpoint Security detects new updates, it downloads them in the background and installs on the computer.

➤ *To launch Kaspersky Endpoint Security update manually ,*

open the main application window (on page [32](#)) and click the  button.

You can view the scan results in the report window (see section "Virus scan statistics" on page [88](#)).

## HOW TO EXPORT THE APPLICATION PREFERENCES TO KASPERSKY ENDPOINT SECURITY INSTALLED ON ANOTHER COMPUTER

Kaspersky Endpoint Security allows to export and import its settings. This is useful if, for example, when the application is installed both on your home and office computers. You can configure the application in a convenient mode at home, save those settings in a special configuration file on a disk, and then import them quickly onto your office workstation. The settings are stored in a special configuration file.

➤ To save the current Kaspersky Endpoint Security settings to a file Endpoint Security:

1. Open the application preferences window (on page [34](#)) and select the **Service** tab.
2. In the **Configuration** section, click the **Save** button. The **Save** window opens.
3. In the **Save as** field enter the file name and select the folder in which it will be saved.


➤ To import the Kaspersky Endpoint Security settings from a configuration file:

1. Open the application preferences window (on page [34](#)) and select the **Service** tab.
2. In the **Configuration** section, click the **Load** button and in the window that opens select the file containing the Kaspersky Endpoint Security settings.


## WHAT TO DO IF FILE ACCESS IS BLOCKED

Kaspersky Endpoint Security blocks access to a file or program if File Anti-Virus (on page [53](#)) suspects the object of being infected or potentially infected by a malicious program, and the **Block access** option has been selected.

➤ To process the dangerous objects listed on the **Detected** tab of the report window:

1. Open the main application window (on page [32](#)) and click the  button. The Kaspersky Endpoint Security report window opens.
2. In the left part of the report window, select **Detected**. The right part of the window displays a list of dangerous objects that have been detected with their status.
3. Press the **Disinfect all** button. After each object is processed, a notification will appear on screen to prompt for further action. If you check the **Apply to all** box in the notification window, the selected action will be applied to all objects with the same status.

➤ To process potentially infected objects in Quarantine:

1. Open the main application window (on page [32](#)) and click the  button. The Kaspersky Endpoint Security report window opens.
2. In the left part of the report window, select **Quarantine**. The contents of Quarantine are displayed in the right-hand part of the window.
3. Click the **Scan all** button to scan and cure all potentially infected objects in Quarantine using the current Kaspersky Endpoint Security databases.
4. Click the **Restore** button to restore the files to the folder specified by the user or the folder from which they were moved to Quarantine (by default).

*We recommend that you only restore objects with the **false positive** status since restoring other objects can lead to your computer becoming infected.*

5. Click the **Delete** or **Clear all** button to delete the selected object from Quarantine or clear Quarantine completely.


If you are confident that the objects being blocked by File Anti-Virus are safe, include them in a trusted zone by creating an exclusion rule (see section "Creating a trusted zone" on page [51](#)).

## WHAT TO DO IF YOU SUSPECT AN OBJECT OF BEING INFECTED WITH A VIRUS

If you suspect an object of being infected, first scan it for viruses (see section "How to scan a file, folder or disk for viruses" on page [44](#)).

If the virus scan performed by Kaspersky Endpoint Security reveals that the object is not infected, though you suspect the opposite, move the object to *Quarantine*. Objects once moved in Quarantine are stored as archives, thus causing no risk to your computer. After the databases are updated, Kaspersky Endpoint Security will probably be able to clearly identify and eliminate the threat.

➤ *To move an object to Quarantine:*


1. Open the main application window (on page [32](#)) and click the  button. The Kaspersky Endpoint Security report window opens.
2. In the left part of the report window, select **Quarantine**. The contents of Quarantine are displayed in the right-hand part of the window.
3. Click the **Add** button and in the window that opens select the required file. It is added to the list with the *added by user* status.

## HOW TO RESTORE AN OBJECT THAT HAS BEEN DELETED OR DISINFECTED BY THE APPLICATION

*We recommend that you avoid restoring deleted and disinfected objects unless it is extremely necessary, because they may threaten your computer.*

Sometimes it is not possible to save objects in their entirety during the disinfection process. If a disinfected file contained important information that is partly or completely inaccessible following disinfection, you can attempt to restore the original object from its backup copy.

➤ *To restore an object that has been deleted or modified by the application:*


1. Open the main application window (on page [32](#)) and click the  button. The Kaspersky Endpoint Security report window opens.
2. In the left part of the report window, select the **Backup Storage** section. The right part of the window displays the contents of Backup in the form of a list of copies of objects.
3. Select the copy of the object you require in the list and click the **Restore** button. Confirm the action. The object is restored to its original location with its original name. If there is an object with the same name in the original location (this situation is possible when restoring an object with a copy created prior to disinfection), a warning will pop up on screen. You can change the location of the object being restored or rename it.

We recommend that you scan the object for viruses immediately after restoring it. It is possible that the object will be disinfected using the updated databases without losing its integrity.

## HOW TO VIEW THE REPORT ON THE APPLICATION'S OPERATION

Information about events that occur during the operation of File Anti-Virus (see section "File Anti-Virus" on page [53](#)), during a virus scan (see section "Scanning for viruses" on page [64](#)) or during an update (see section "Updating the application" on page [80](#)) is displayed in the reports window (see section "Reports" on page [94](#)).

➔ *To open the report window,*

open the main application window (on page [32](#)) and click the  button.

## WHAT TO DO WHEN THE APPLICATION'S NOTIFICATIONS APPEAR

Application notifications (see section "Notification windows and pop-up messages" on page [35](#)) in the form of pop-up on-screen messages inform you of events that occur during the application's operation, that require your attention.

If such notification is displayed on the screen, you should select one of the suggested options. Optimum option is the one recommended by Kaspersky Lab experts by default.



# ADVANCED APPLICATION SETTINGS

This section provides detailed information about each application component and describes the operation and configuration algorithms for each component.

## IN THIS SECTION:

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Creating a protection scope .....	<a href="#">49</a>
File Anti-Virus .....	<a href="#">53</a>
Virus Scan .....	<a href="#">64</a>
Updating the application .....	<a href="#">80</a>
Reports and Storages .....	<a href="#">89</a>

## CREATING A PROTECTION SCOPE

The scope of protection for your computer is defined by the following settings:

- the list of malware programs which the application protects against;
- list of objects in the trusted zone which are excluded from the protection scope.

## IN THIS SECTION:

---

Selecting malicious programs to be monitored .....	<a href="#">49</a>
Creating a trusted zone .....	<a href="#">51</a>

## SELECTING MALICIOUS PROGRAMS TO BE MONITORED

Kaspersky Endpoint Security protects against various types of malware. Regardless of your settings, the application protects your computer against the most dangerous types of malware such as viruses, Trojans, and hacking tools. These programs may cause significant damage to your computer. To achieve a greater level of security for your computer, you can expand the list of threats that the application will detect, turning on monitoring of various potentially dangerous programs.

Malware and potentially dangerous programs against which Kaspersky Endpoint Security protects you are grouped as follows:

- **Viruses, worms, Trojans, hack tools.** This group contains the most common and dangerous categories of malware. This is the minimum admissible security level. In accordance with the recommendations of Kaspersky Lab experts, Kaspersky Endpoint Security always monitors this group of malware.
- **Spyware and Adware.** This group includes potentially dangerous software that may cause inconvenience to the user or even cause damage.
- **Auto-dialers.** This group includes programs, which set up hidden dial-up connections, such as adult services auto-dialers.

- **Other programs.** This group includes programs that are not malicious or dangerous, but which under certain circumstances could be used to cause harm to your computer.

➔ To select the groups of malware against which Kaspersky Endpoint Security will protect your computer:

1. Open the application preferences window (on page [34](#)) and select the **Threats** tab (see figure below).
2. In the **Malware categories** section, check the boxes next to the names of the malware groups against which Kaspersky Endpoint Security should protect your computer.

Kaspersky Endpoint Security always protects your computer against viruses, worms, Trojans, and hack tools. Therefore, it is not possible to uncheck the box for this group.

Depending on the selected groups, Kaspersky Endpoint Security will fully or partially use the anti-virus databases while File Anti-Virus is running (see section "File Anti-Virus" on page [53](#)) and during virus scans (see section "Scanning for viruses" on page [64](#)).

If all groups of malware are selected, Kaspersky Endpoint Security provides the maximum level of anti-virus protection for your computer. If only protection against viruses, worms, Trojans and hacking tools is selected, Kaspersky Endpoint Security does not control potentially dangerous programs and other malware that may be installed on your computer and could cause moral or material damage.

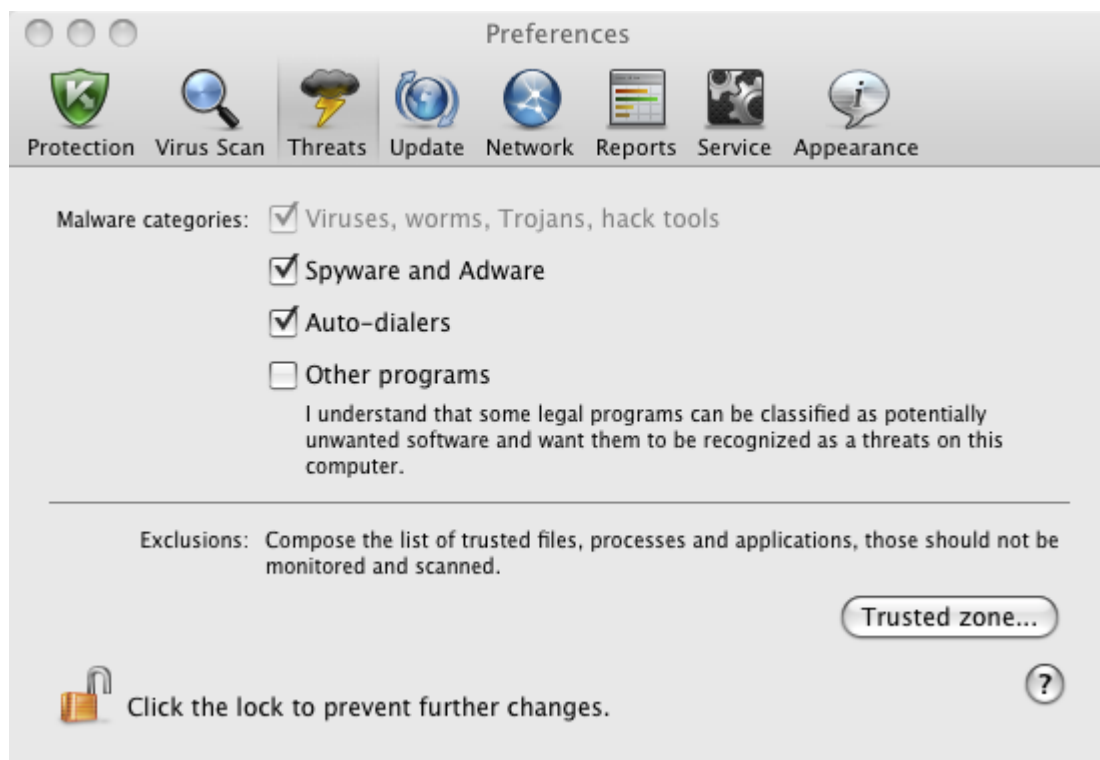


Figure 15. Application preferences window. Threats

Kaspersky Lab does not recommend disabling monitoring of spyware, adware and auto-dialers. If Kaspersky Endpoint Security classifies a program, which you do not consider to be dangerous, as unwanted, you can configure an exclusion rule for it (see section "Creating a trusted zone" on page [51](#)).

## CREATING A TRUSTED ZONE

*Trusted zone* is a user-created list of objects that Kaspersky Endpoint Security does not monitor.

The user creates a trusted zone with regard to the objects he/she works with and the programs installed on the computer. You might need to create such an exclusion list if, for example, Kaspersky Endpoint Security blocks access to an object or program which you know is safe.

*Exclusion rules* are sets of conditions under which Kaspersky Endpoint Security does not scan objects. It is possible to exclude from a scan files of a certain format (see section "List of objects scanned by their extension" on page 154), files by their mask (see "Permissible file exclusion masks" on page 156), a particular area (for example, a folder or program), application processes or objects by the type of threat in accordance with the Virus Encyclopedia (<http://www.securelist.com>).

An exclusion object will not be scanned when the disk or folder where it is located is being scanned. However, if you select that object specifically, the exclusion rule will not be applied to it.

*Threat type* is the status that Kaspersky Endpoint Security assigns to an object during the scan. The status is assigned based on the classification of malware and riskware listed in the Kaspersky Lab Virus Encyclopedia.

Riskware does not have any malicious features but can be used as an auxiliary component by malicious software, since such programs can contain holes and errors. This category includes, for example, remote administration programs, IRC clients, FTP servers, various utilities for stopping processes or hiding them, keyloggers, password macros, and auto-dialers. Such programs are classified in not-a-virus group. They can be divided into several types such as Adware, Joke, and Riskware. (for detailed information about unwanted programs detected by Kaspersky Endpoint Security, see the Virus Encyclopedia (<http://www.securelist.com>)). Such programs may be blocked after the scan. Since several of them are popular with users, you have the option of excluding them from the scan.

➤ To create a new exclusion rule or view and modify an existing one, do the following:

1. Open the application preferences window (on page 34) and select the **Threats** tab (see figure below).

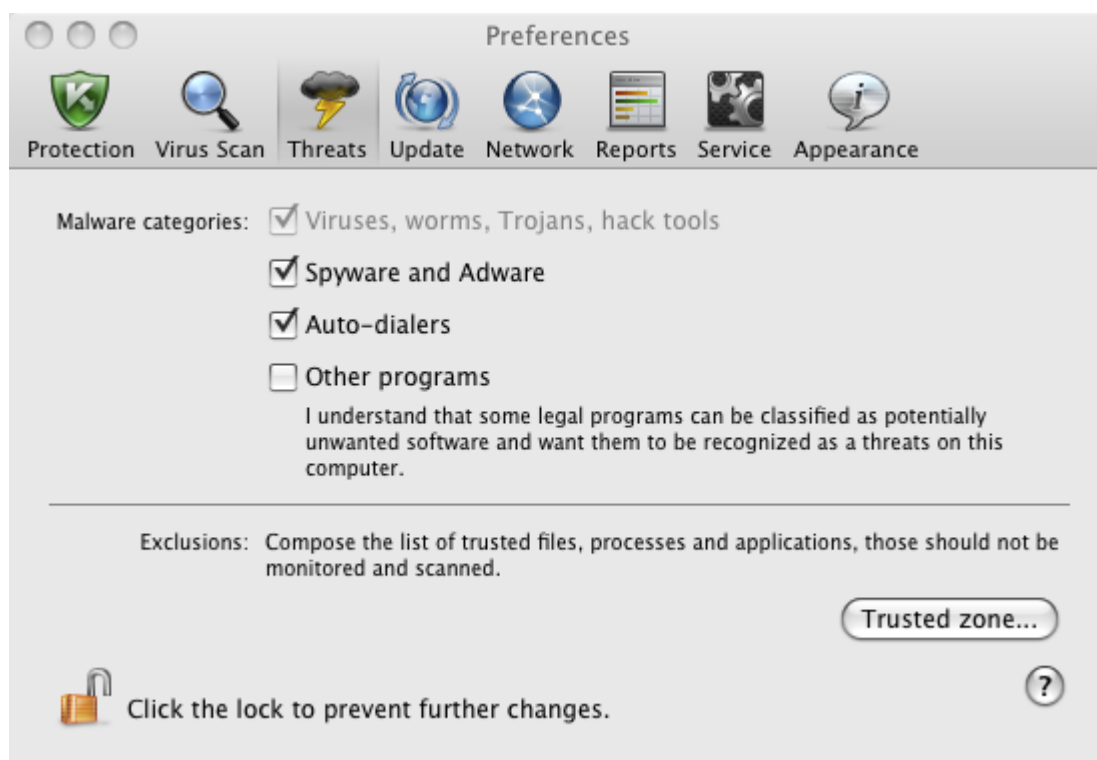


Figure 16. Application preferences window. Threats

- Under **Exclusions**, click the **Trusted zone** button (see figure above). A window (see figure below) opens, displaying a list of objects that Kaspersky Endpoint Security will not control when running.

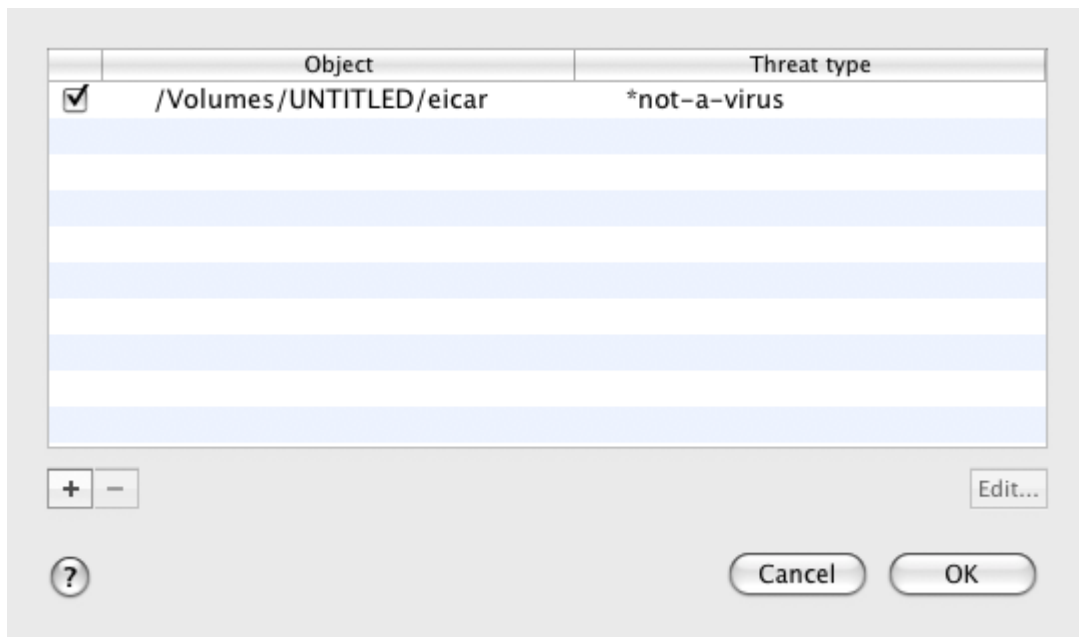


Figure 17. The list of exclusion objects

You can perform the following actions:

- Create new exclusion rule.

Click the  button and in the **Exclusion rule** window that opens (see figure below) set the conditions.


- Modify existing exclusion rule.

Select the exclusion rule in the list and click the **Edit** button. In the **Exclusion rule** window that opens (see figure below), modify the conditions.

- Temporarily disable exclusion rule.

Select the exclusion rule in the list and uncheck the box next to it. The exclusion rule will be disabled until the box is checked again.

- Delete exclusion rule.

Select the exclusion rule in the list and click the Modify button .

## Creating an exclusion rule

In the **Exclusion rule** window that opens, specify the conditions for the exclusion rule in accordance with the following settings:

- **Object / All objects.** Specify a file, folder or file mask (see section "Permissible file exclusion masks" on page [156](#)) as an exclusion object. You can enter the name / name mask of the object in the field manually or by clicking the **Select** button and selecting the object in the window that opens.

If the **All objects** option is selected, all objects on your computer which are of the threat type specified in the field below will be excluded from scan.

- **Threats type / All threats.** The setting allows to exclude objects from scan based on the threat type assigned according to the Virus Encyclopedia classification. To enter the name of the threat, use the values in the dropdown list: **start with**, **end with**, **contain**, **whole word**, and specify the corresponding fragment of the name in the field to the right of the list. For example, if the **start with not-a-virus** value is selected, then legal but potentially dangerous programs will be excluded from scan. Specifying the name of the threat by mask (see section "Allowed exclusion masks according to the Virus Encyclopedia classification" on page [157](#)) is also admissible.

If the **All threats** value is selected, then all objects specified in the **Object** field above will be excluded from scan, regardless of the threat type assigned to them.

If both the exclusion object and the threat type are selected, the rule will apply as follows:

- If you specify a certain file as the object and a certain status as the threat type, the specified file will only be excluded if during the scan it is assigned the selected threat status.
- If you select an area or folder as the object and a status (or a mask) as the threat type, objects with that status will be excluded from the scan only in that area or folder.
- **Component / All components.** Select the Kaspersky Endpoint Security components that should apply the rule being created: **File Anti-Virus** or **Virus Scan**.

If the **All components** option is selected, then all virus scan tasks and File Anti-Virus will use this rule.

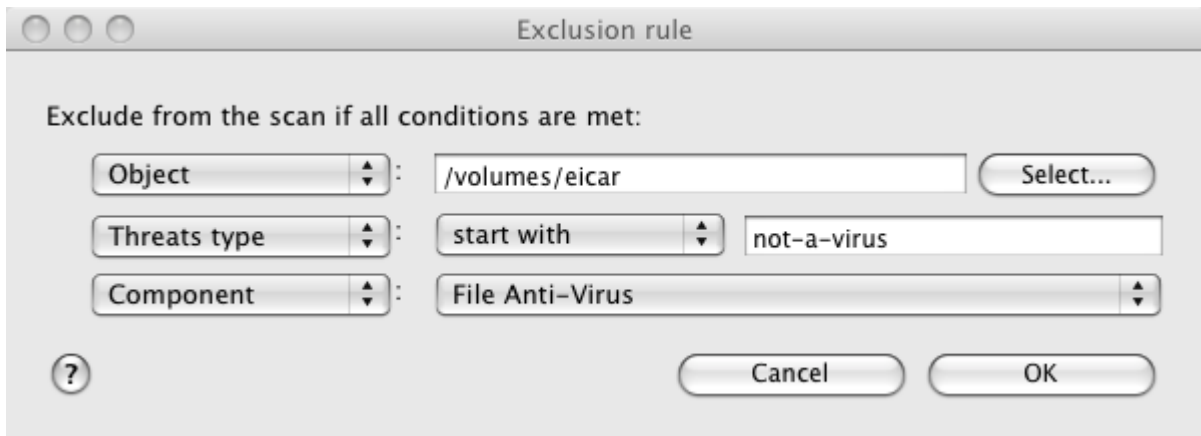


Figure 18. Creating an exclusion rule

## FILE ANTI-VIRUS

The computer's file system may contain viruses and other malicious programs that have persisted for years, having initially penetrated the computer from a removable disk drive or from the Internet and never causing any trouble.

*File Anti-Virus* is the component that monitors the computer's file system in real-time mode. By default, it is launched during startup of the operating system, persists continuously in RAM, and scans all files that are opened, started or saved on your computer and all associated disk drives.

File Anti-Virus works with files in the following manner:

1. The component intercepts every attempt by the user or by any program to access any file.
2. File Anti-Virus scans the iSwift (see section "Configuring additional settings" on page [60](#)) database for information about the file. A decision is made whether to scan the file based on the information retrieved.
3. The file is analyzed for viruses. Malicious objects are detected using the Kaspersky Endpoint Security databases. These databases contain descriptions of all the currently known malicious programs along with instructions to neutralize them.

Depending on the results of the analysis, the following options of Kaspersky Endpoint Security are available:

- If no malicious code is detected in the file, it will immediately become accessible.
- If malicious code is detected in a file, File Anti-Virus blocks the file and attempts to disinfect it. After successful disinfection, the file will become accessible. If disinfection fails, the file will be deleted. A copy of the file will be moved to Backup Storage (on page [92](#)).
- If a malicious code is detected in the file, it is moved to a special storage area known as Quarantine (on page [90](#)). An attempt can be made later to cure it using the updated anti-virus databases.

By default, Kaspersky Endpoint Security is launched when the operating system starts, and protects your computer during the entire session. The Kaspersky Endpoint Security icon shows that File Anti-Virus is running (on page [30](#)). If the icon is active, your computer's protection is enabled; if the icon is inactive, protection is disabled.

**IN THIS SECTION:**

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Disabling file protection .....	<a href="#">54</a>
Restoring protection on your computer .....	<a href="#">56</a>
Configuring File Anti-Virus.....	<a href="#">57</a>
Restoring default file protection settings.....	<a href="#">62</a>
File protection statistics .....	<a href="#">63</a>

**DISABLING FILE PROTECTION**

**Kaspersky Lab strongly recommends that you do not disable Anti-Virus real-time protection since this could lead to your computer becoming infected and loss of data.**

Note that the icon indicates the protection status provided by File Anti-Virus (see section "Anti-virus protection of computer's file system" on page [53](#)). Disabling or pausing File Anti-Virus does not impact the execution of virus scan tasks (see section "Scanning for viruses" on page [64](#)) or application updates (see section "Updating the application" on page [80](#)).

There are several ways to disable File Anti-Virus. However, before doing so you should know why you want to disable the component.

There is likely to be a different solution to the problem: change the security level (see section "Setting the security level" on page [57](#)) or disable protection only for certain files by creating an exclusion rule (see section "Creating a trusted zone" on page [51](#)). For example, if you are working with a database that you believe is free from viruses, just specify the folder containing its files as an exclusion. You may need to stop File Anti-Virus temporarily if Kaspersky Endpoint Security conflicts with other programs installed on your computer.

➔ The following methods can be used to disable File Anti-Virus:

- Click the Kaspersky Endpoint Security icon (on page 30) and select **Turn Protection Off** from the context menu (see figure below).

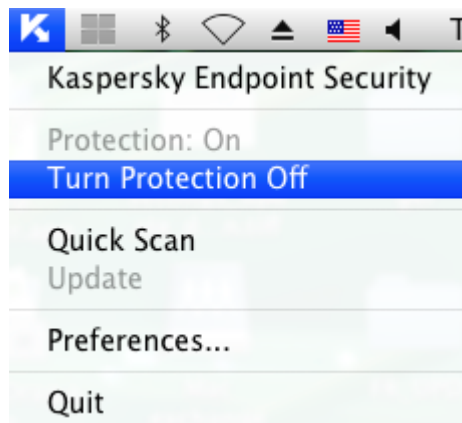


Figure 19. Disabling File Anti-Virus

- Open the application preferences window (on page 34), select the **Protection** tab and uncheck the **Enable File Anti-Virus** box (see figure below).



Figure 20. Application preferences window. Protection

If you have disabled File Anti-Virus, it will not be turned on automatically when Kaspersky Endpoint Security restarts. You will need to enable file system protection manually (see section "Enabling file system protection" on page 56).

## RESTORING PROTECTION ON YOUR COMPUTER

If File Anti-Virus is disabled, it can be enabled only manually at the user's request. In this case, File Anti-Virus will not be automatically enabled after the system or Kaspersky Endpoint Security restarts.

➔ The following methods can be used to enable File Anti-Virus:

- Click the Kaspersky Endpoint Security icon (on page 30) and select **Turn Protection On** from the context menu (see figure below).



Figure 21. Enabling File Anti-Virus

- Open the application preferences window (on page 34), select the **Protection** tab and check the **Enable File Anti-Virus** box (see figure below).



Figure 22. Application preferences window. Protection



- Use the Security Assistant (see section "Security Assistant" on page [42](#)). You significantly increase the risk of infecting your computer if you pause or stop protection, therefore this threat is immediately logged by the Security Assistant.

## CONFIGURING FILE ANTI-VIRUS

File Anti-Virus is controlled using the following settings:

- **Security level.**

The security level is a set of parameters that define the balance between the thoroughness and speed of scanning objects. There are three predefined security levels (see section "Selecting the security level" on page [57](#)) with settings developed by Kaspersky Lab.

- **Action on detected object.**

This action (see section "Selecting actions on objects" on page [61](#)) defines how Kaspersky Endpoint Security will react when an infected or potentially infected object is detected.

## SELECTING THE SECURITY LEVEL

File Anti-Virus provides protection for your computer's file system at one of the following levels:

- **Maximum protection** provides the most complete scan of the files you open, save, or start.
- **Recommended** contains the settings recommended by Kaspersky Lab.
- **Maximum Speed** - this level enables you to comfortably use other applications that require significant system resources, since the range of files scanned is smaller.

By default, File Anti-Virus uses the **Recommended** security level. You can increase or decrease the level of file system protection by selecting **Maximum protection** or **Maximum speed** accordingly, or by modifying the current settings.

➤ *To change the defined security level, do the following:*

1. Open the application preferences window (on page [34](#)) and select the **Protection** tab (see figure below).
2. In the **Security level** section, move the slider bar to the required position. Modifying the security level changes the balance between the scan speed and the total number of files scanned: the fewer files scanned for viruses, the higher the scan speed.

If none of the preset security levels meets your needs, you can customize the scan settings. You are advised to select the level closest to your requirements as a basis and then modify its settings. This will change the name of the security level to **Custom**.

➤ *To modify the settings for the current security level, do the following:*

1. Open the application preferences window (on page [34](#)) and select the **Protection** tab (see figure below).
2. In the **Security level** section, click the **Preferences** button.
3. In the window that opens edit the file protection settings:
  - on the **General** tab (see section "Specifying the types of files to scan" on page [58](#)), specify the types of files to be scanned.
  - on the **Protection scope** tab (see section "Creating a protection scope" on page [59](#)), specify the drives or folders that are to be checked by File Anti-Virus.

- on the **Additional** tab (see section "**Configuring additional settings**" on page 60), set the run mode of the component.
4. Click **OK** to save changes.

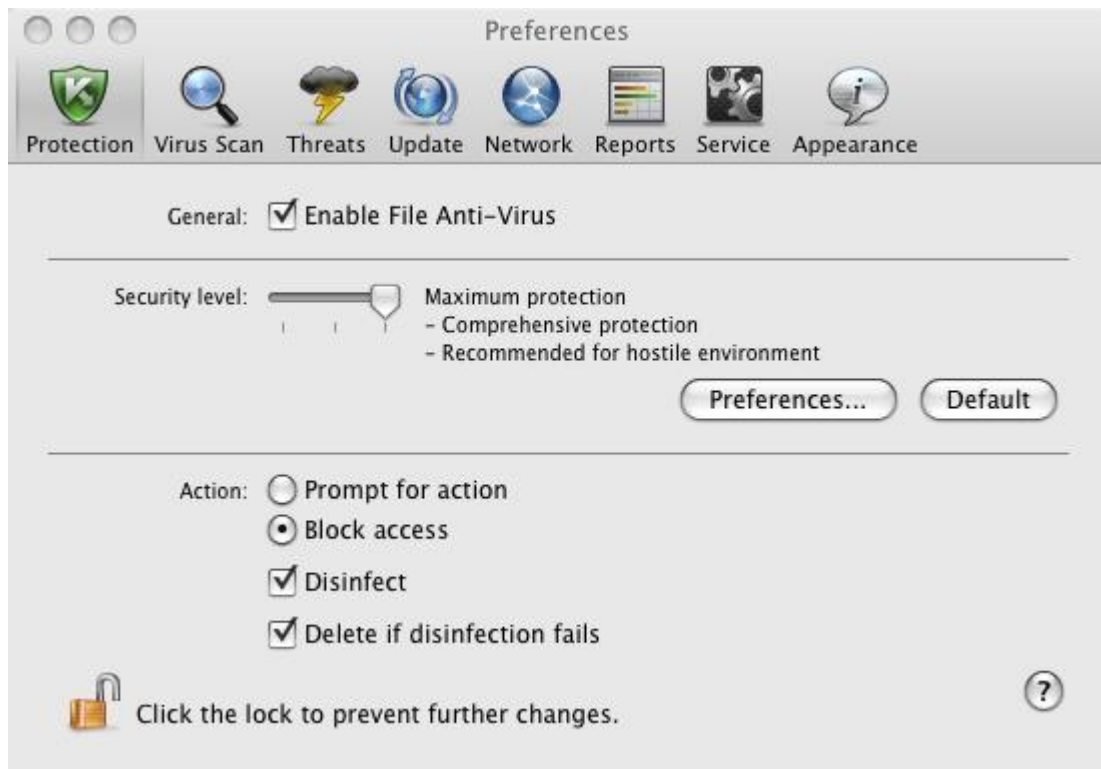


Figure 23. Application preferences window. Protection

## SPECIFYING THE TYPES OF FILES TO SCAN

By specifying the types of files to scan, you define which files by format and size File Anti-Virus will scan for viruses when they are opened, used and saved. You can also set the scan performance.

- *To specify the type of objects to be scanned by File Anti-Virus and set the scan performance:*
  1. Open the application preferences window (on page 34) and select the **Protection** tab.
  2. In the **Security level** section, click the **Preferences** button.
  3. In the window that opens select the **General** tab (see figure below) and configure the following settings:
    - In the **File types** section, specify which formats of objects should be scanned for viruses by Kaspersky Endpoint Security when they are opened, run, or saved.
    - In the **Optimization** section, set the scan performance.

- In the **Compound files** section, select which compound files should be scanned for viruses, and set a restriction on the scan of large-sized objects.

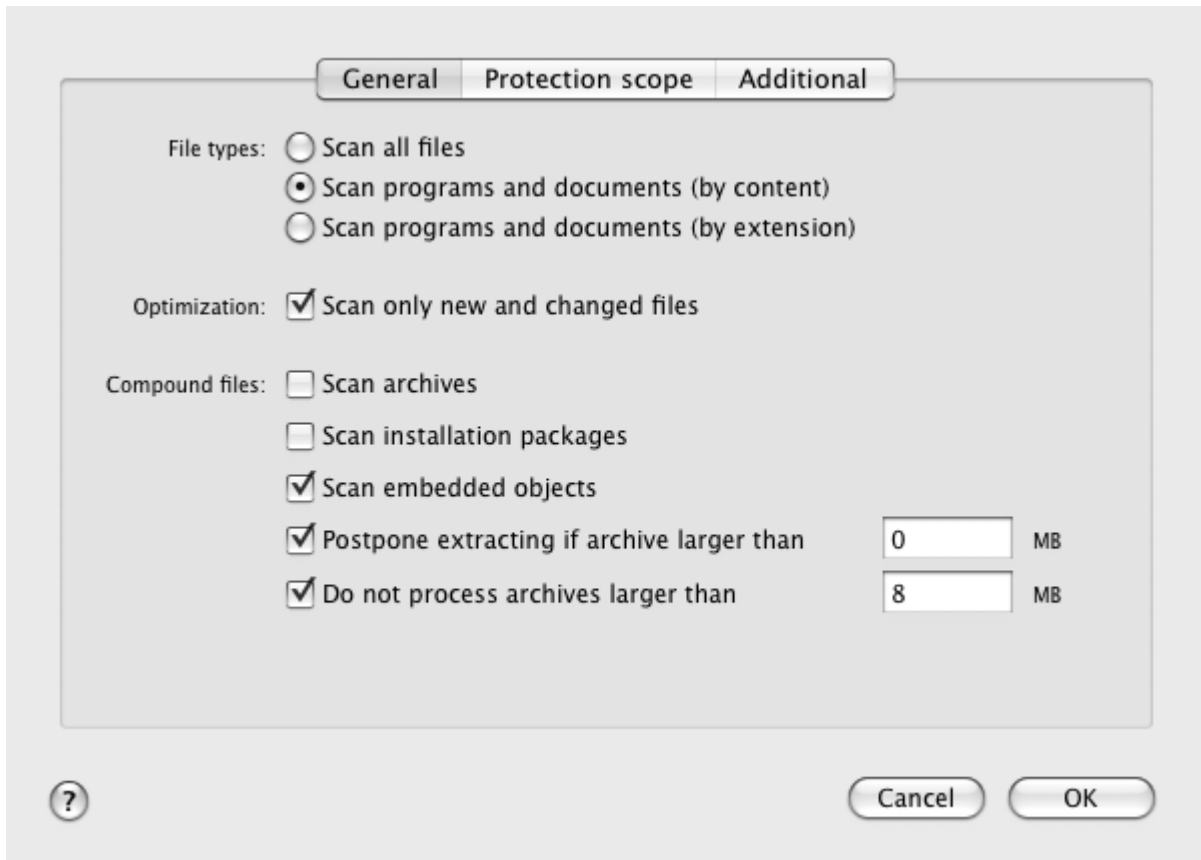


Figure 24. File Anti-Virus. Configuring scan settings

## CREATING A PROTECTION SCOPE

By default, File Anti-Virus scans all files at the moment they are accessed, regardless of the media they are stored on, whether it is a hard disk drive, a CD / DVD-ROM, or a flash card.

➤ To create a list of objects covered by the protection scope, do the following:

1. Open the application preferences window (on page [34](#)) and select the **Protection** tab.
2. In the **Security level** section, click the **Preferences** button.
3. Select the **Protection scope** tab in the window that opens. (see figure below). The tab displays a list of objects that will be scanned by File Anti-Virus. By default, all objects located on the hard, removable and network disk drives connected to your computer are protected.

You can perform the following actions:

- Add object to be scanned.

Click the  button and in the window that opens select a folder or file.


- Edit an object on the list (only available for user-added objects).

Select the object and click the **Edit** button. Make the required changes in the window that opens.

- Temporarily disable scanning of object.

Select the object and uncheck the box next to it. File Anti-Virus will not control this object until the box is checked again.

- Delete an object (only available for user-added objects).

Select the object and click the  button.

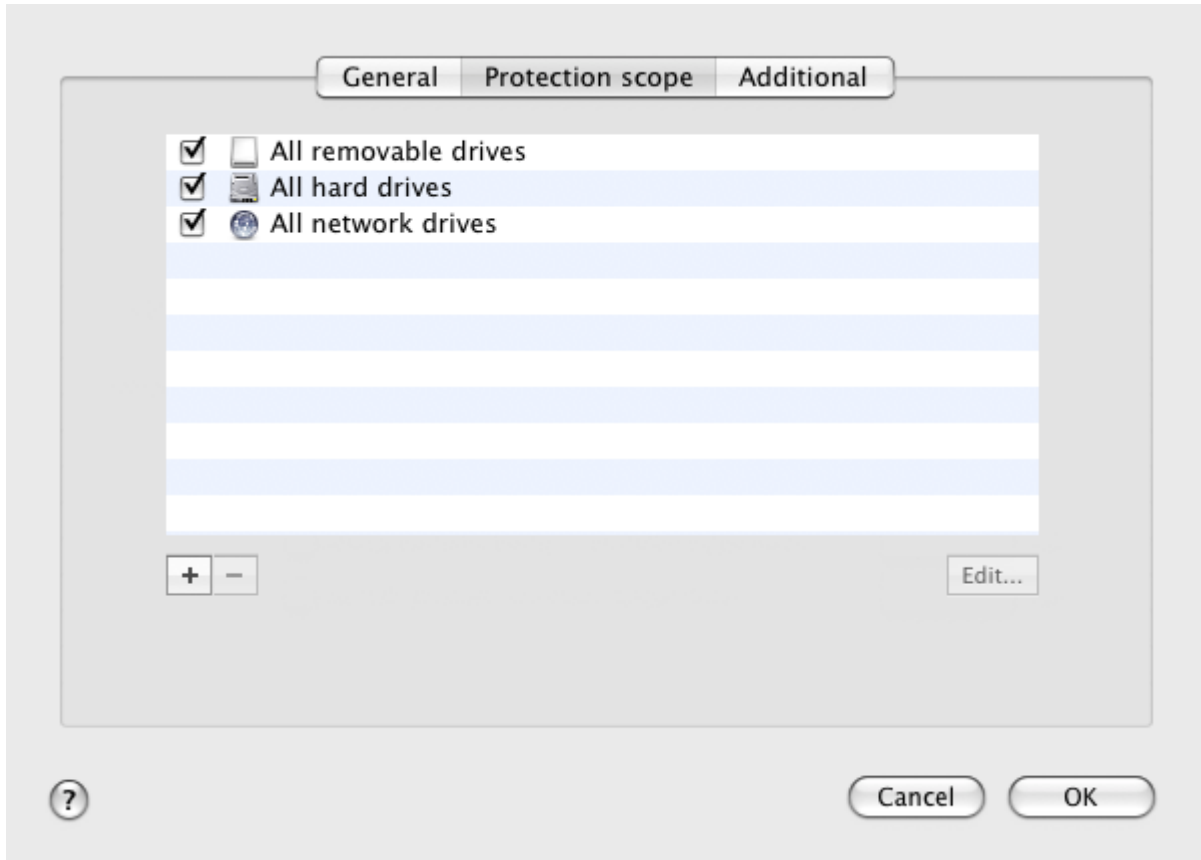


Figure 25. File Anti-Virus. Creating a protection scope

To limit the number of protected objects, you can:

- specify only the folders, disk drives, or files you want to protect;
- create a list of objects that do not need protection (see section "Creating a trusted zone" on page [51](#));
- combine the first and second methods, i.e. create a protection scope and exclude a number of objects from it.

## CONFIGURING ADDITIONAL SETTINGS

You can configure the following additional settings for File Anti-Virus: scan mode for file system objects, iSwift to improve performance, and the component's schedule.

➤ *To configure additional settings of File Anti-Virus, do the following:*

1. Open the application preferences window (on page [34](#)) and select the **Protection** tab.
2. In the **Security level** section, click the **Preferences** button.

3. In the window that opens select the **Additional** tab (see figure below) and configure the following settings:
  - Select File Anti-Virus operation mode in the **Scan mode** section.
  - In the **Performance** section, select a scan technology.
  - In the **Pause task** section, enable the scheduled pausing of File Anti-Virus and configure the schedule.
  - In the **Heuristic analyzer** section, configure the use of the heuristic analyzer by File Anti-Virus.

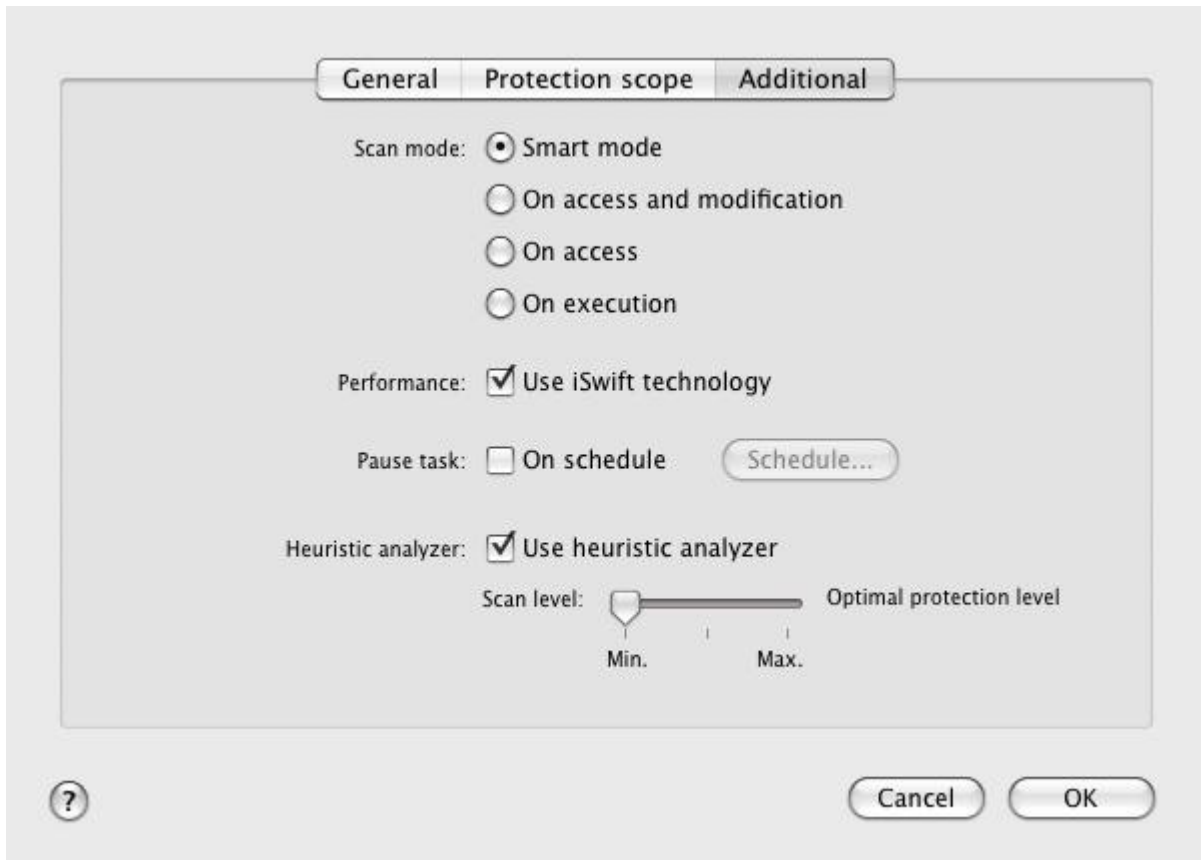


Figure 26. File Anti-Virus. Configuring additional settings

## SELECTING ACTIONS ON OBJECTS

If a virus scan reveals that a file is infected or potentially infected, the subsequent behavior of File Anti-Virus depends on the status of the object and the selected action.

When the scan is complete, the object may be identified as:

- malicious, for example, a *virus* or *Trojan*;
- *potentially infected* when the scan cannot determine whether the object is infected or not. The application has probably found in the file a sequence of code from an unknown virus or modified code from a known virus.

By default, all malicious objects undergo disinfection and all potentially infected objects are placed in Quarantine (see section "Quarantine" on page [90](#)).

► To select action which File Anti-Virus needs to perform on detecting an infected or potentially infected object:

1. Open the application preferences window (on page [34](#)) and select the **Protection** tab (see figure below).

- In the **Action** section, select the File Anti-Virus action.

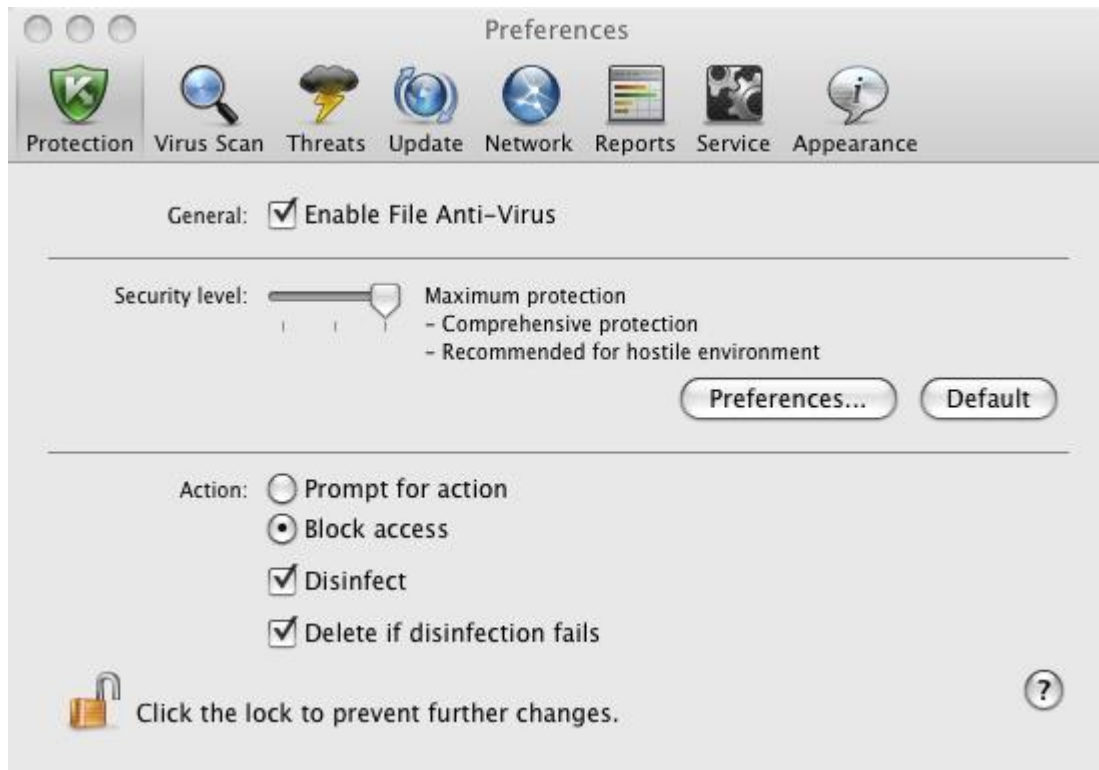


Figure 27. Application preferences window. Protection

Before disinfecting the object or deleting it, Kaspersky Endpoint Security creates a backup copy and places it in the backup (on page [92](#)) in case the object needs to be restored, or it becomes possible to disinfect it.

## RESTORING DEFAULT FILE PROTECTION SETTINGS

You can restore the File Anti-Virus default settings at any time. Kaspersky Lab considers these settings to be optimal and has used them in its **Recommended** security level.

◆ To restore the default File Anti-Virus settings:

- Open the application settings window (on page [34](#)) and select the **Protection** tab (see figure below).

- In the **Security level** section, click the **Default** button.

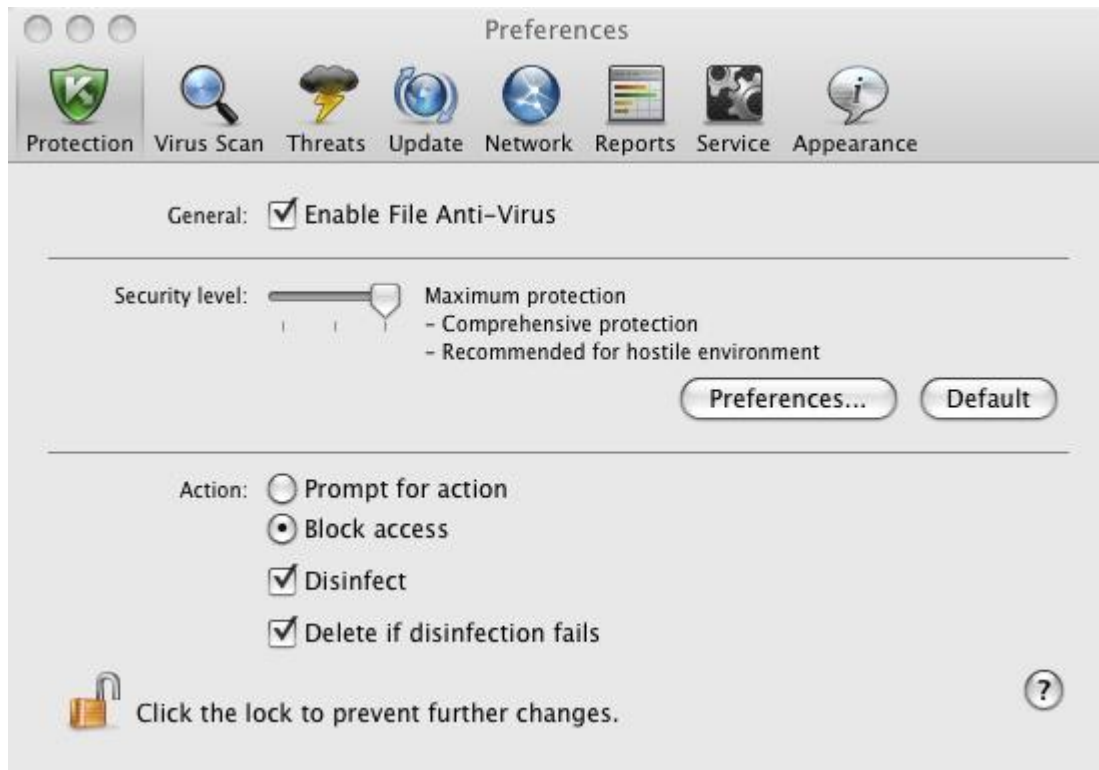



Figure 28. Application preferences window. Protection

## FILE PROTECTION STATISTICS

Summary statistics on File Anti-Virus (number of objects scanned since its most recent launch, number of dangerous objects detected and disinfected, name of the most recently scanned file) are displayed in the bottom part of the main application window (see section "Main application window" on page [32](#)).

Also, Kaspersky Endpoint Security provides a detailed report of File Anti-Virus operation.

➤ *To view the report:*

- Open the main application window (on page [32](#)) and click the  button.
- In the **Running tasks** section of the report window that opens, select **File Anti-Virus**.

If File Anti-Virus is currently disabled, you can view a detailed report on the results of its most recent launch in the **Completed tasks** section.

If File Anti-Virus returns an error when closing, view the report and try to restart the component. If you cannot solve the problem on your own, please contact Kaspersky Lab Technical Support Service (see section "Contacting Technical Support Service" on page [152](#)).

Detailed information about File Anti-Virus is provided in the report window to the right on the following tabs:

- The **Detected** tab lists all dangerous objects detected by File Anti-Virus. For each object the name and path to the folder where it is stored are displayed, as well as the status it has been assigned by File Anti-Virus. If the malicious program that has infected the object is revealed, the object is assigned the corresponding status, for example, *virus*, *Trojan*, etc. If the type of malicious effect cannot be established precisely, the object is assigned the *suspicious* status. The action taken on the object is also specified next to the status (*detected*, *disinfected*).

- The **Events** tab provides a full list of events logged during operation of File Anti-Virus, specifying the time, name, status and cause of each event. The events can have the following statuses:
  - *information* (for example, object not processed, skipped by type);
  - *warning* (for example, a virus is detected);
  - *comment* (for example, archive is password-protected).
- The **Statistics** tab provides information about the total number of scanned objects and, in separate columns, how many objects out of the total number scanned are archives, how many are dangerous, how many have been disinfected, how many have been placed in Quarantine, etc.
- The **Preferences** tab lists the main settings used by File Anti-Virus. To configure a component quickly, click the **Change preferences** button.

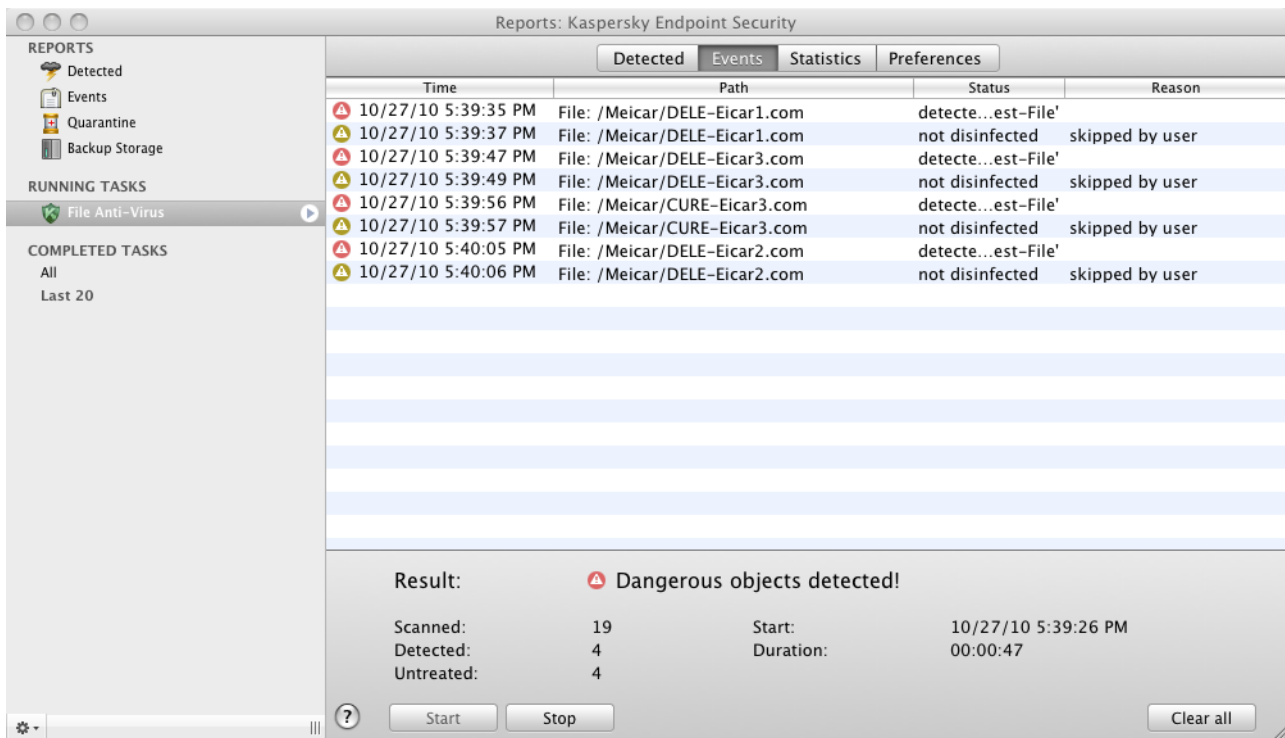


Figure 29. Report window. File Anti-Virus

## VIRUS SCAN

In addition to the file system protection provided by File Anti-Virus (see section "File Anti-Virus" on page 53) in real-time mode, it is extremely important to scan your computer for viruses. This is required to stop the spread of malicious programs that have gone undetected by File Anti-Virus, because, for instance, the level of protection selected is low.

Kaspersky Endpoint Security comprises the following integrated virus scan tasks:

-  **Virus Scan**

Scan individual items for viruses, such as files, folders, disks, plug-and-play devices.



- 
**Full Scan**

Search for viruses on your computer with a thorough scan of all hard drives.

- 
**Quick Scan**

Scans only critical areas of the computer for viruses, including folders with operating system files and system libraries.

By default, these tasks are executed using the recommended settings. You can edit these settings (see section "Configuring virus scan tasks" on page [70](#)), or create a schedule for running virus scan tasks (see section "Configuring the virus scan task schedule" on page [74](#)).

**IN THIS SECTION:**

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Managing virus scan tasks .....	<a href="#">65</a>
Creating a list of objects to scan .....	<a href="#">69</a>
Configuring virus scan tasks .....	<a href="#">70</a>
Restoring default scan settings .....	<a href="#">77</a>
Virus scan statistics.....	<a href="#">78</a>

**MANAGING VIRUS SCAN TASKS**

You can run virus scan tasks manually (see section "Launching / pausing virus scan task" on page [65](#)) or automatically, by a schedule (see section "Configuring the virus scan task schedule" on page [74](#)). You also have the option of creating user tasks in Kaspersky Endpoint Security(see section "Creating virus scan tasks" on page [67](#)).

**LAUNCHING / PAUSING VIRUS SCAN TASK**

➔ *To start a virus scan task manually, do the following:*

1. Open the main application window (on page [32](#)) and click the  button.


- In the window that opens (see figure below), select the required task **Full Scan**, **Quick Scan** or **Virus Scan**. If you have selected the **Virus Scan** task, Kaspersky Endpoint Security offers you to specify the scan scope. In addition to the pre-set tasks included in the application, the menu displays the user virus scan tasks (see section "Creating virus scan tasks" on page [67](#)) that have been created.



Figure 30. Virus scan tasks

Information on currently running tasks is displayed in the left part of the main window, and also in the **Running tasks** section of the reports window (see section "Reports" on page [94](#)). Information about executed tasks is displayed in the **Completed tasks** section of the report window (see figure below).

➔ *To pause a virus scan task, do the following:*

- Open the main application window (on page [32](#)) and click the  button. The Kaspersky Endpoint Security report window opens.

- In the **Running tasks** (see figure below) section select the name of the virus scan task and click the **Stop** button. This will pause the scan until you start the task again manually or it starts again automatically according to the schedule. To restart the scan, click the **Start** button. A window opens in which Kaspersky Endpoint Security offers you to resume the scan that has been interrupted, or start it from the beginning.

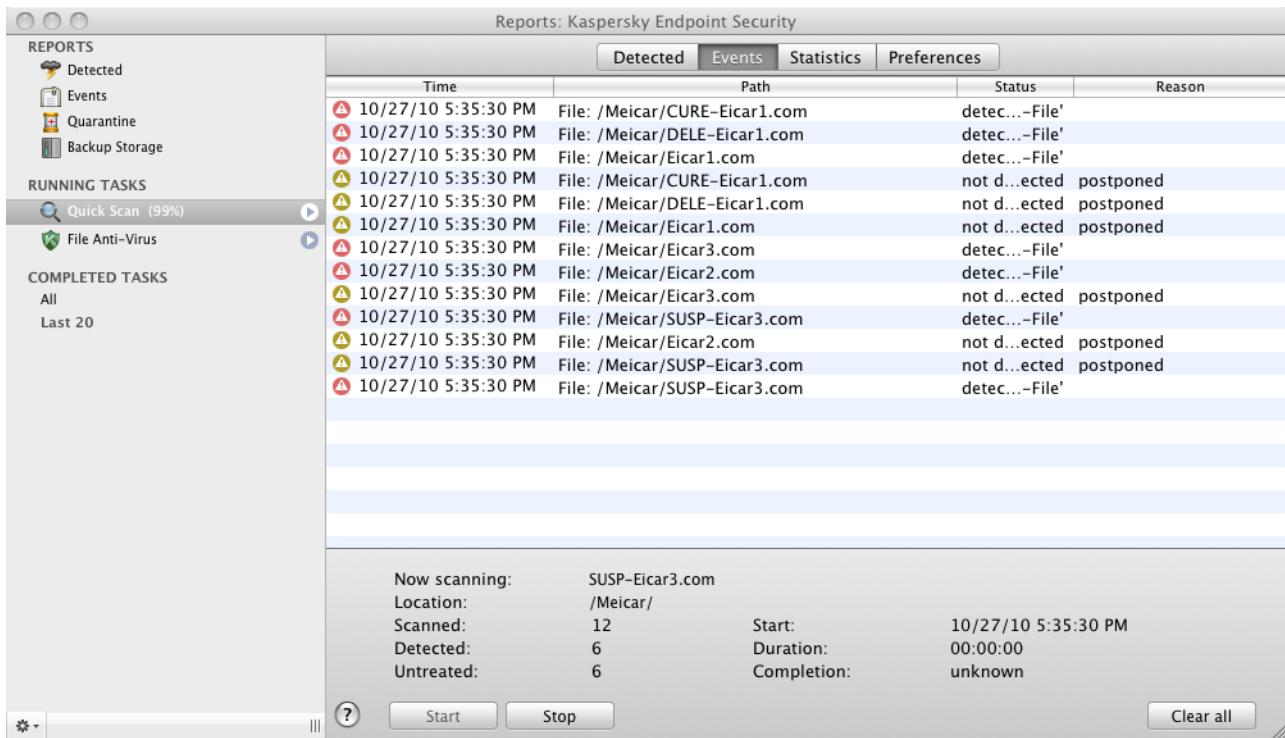


Figure 31. Report window. Virus Scan

## CREATING VIRUS SCAN TASKS

To scan objects in your computer for viruses, not only can you use the virus scan tasks integrated into Kaspersky Endpoint Security, but also create your own custom tasks. New tasks are created by modifying existing ones.

◆ To create a new virus scan task, please do the following:

- Open the application preferences window (on page [34](#)).

2. Select the **Virus Scan** tab in the list to the left (see figure below) and select **Quick Scan** task or **Full Scan** task whose settings most closely match your requirements.

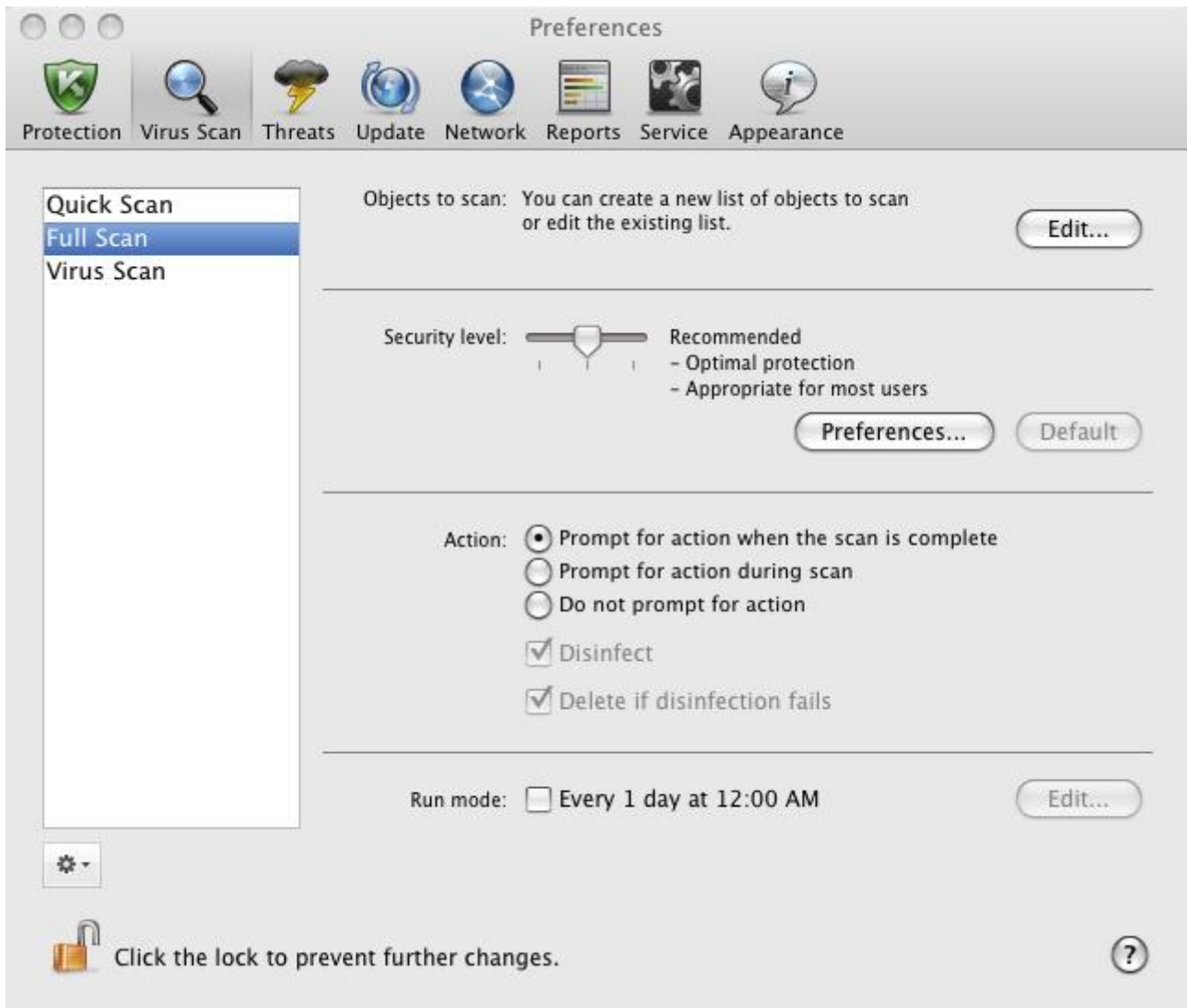



Figure 32. Application preferences window. The Full Scan task

3. Click the  button under the list of virus scan tasks and in the window that opens select the **Copy** command.
4. Enter the name of the new task in the window that opens and click **OK**. A task with the name you have specified appears in the task list.

The new task inherits all the properties of the task from which it was created. Therefore, you may need to configure some additional settings:


- modify the list of objects to scan (see section "Creating a list of objects to scan" on page [69](#));
- specify the settings (see section "Configuring virus scan tasks" on page [70](#)) to be used to execute the task;
- create an automatic run schedule (see section "Configuring the virus scan task schedule" on page [74](#)).

In addition to the pre-set virus scan tasks, Kaspersky Endpoint Security allows you to create up to six user scan tasks.


You can rename and remove scan tasks.

Only user tasks can be renamed or deleted.

➤ *To rename a created task, do the following:*

1. Open the application preferences window (on page [34](#)).
2. Select the task in the list to the left (see figure above).
3. Click the  button under the list of virus scan tasks and in the window that opens select the **Rename** command.
4. Enter the name of the task in the window that opens and click **OK**. The task is renamed.

➤ *To delete a created task, do the following:*

1. Open the application preferences window (on page [34](#)).
2. Select the task in the list to the left (see figure above).
3. Click the  button under the list of virus scan tasks and in the window that opens select the **Delete** command. Confirm the action. The task is deleted from the list.

## CREATING A LIST OF OBJECTS TO SCAN

The pre-set **Full Scan** and **Quick Scan** tasks already contain lists of objects to scan. The **Full Scan** task allows you to scan all files stored on all hard drives of your computer. While running the **Quick Scan** task, Kaspersky Endpoint Security only scans vulnerable objects: folders containing operating system files and system libraries.


The **Virus scan** task requires you to create a list of objects to scan (files, folders, drives, removable devices).

➤ *To view the list of objects to scan during execution of the **Full Scan** and **Quick Scan** tasks or edit it:*

1. Open the application preferences window (on page [34](#)) and select the **Virus Scan** tab.
2. In the list to the left, select the task name: **Full Scan** or **Quick Scan**.
3. To the right under **Objects to scan** click the **Edit** button. A window will open containing the list of objects (see figure below). Edit the list of objects, if necessary.

You can perform the following actions:

- Add an object to the list.

Drag an object into the window, click the  button and select a more suitable option (**File or folder**, **All drives**, **Quarantine**, etc.). If the object being added contains subfolders that should also be scanned, check the **Include subfolders** box in the file selection window. If the object being added contains symbolic links to other objects requiring a scan, check the **Include symbolic links** box in the file selection window that opens.


- Edit an object on the list (only available for user-added objects).

Select the object and click the **Edit** button. Make the required changes in the window that opens.

- Temporarily disable scanning of object.

Select the object and uncheck the box next to it. The virus scan task will not be executed for this object until the box is checked again.

- Delete an object (only available for user-added objects).

Select the object and click the  button.

When creating user tasks (see section "Creating virus scan tasks" on page [67](#)) the same procedure is used to generate or modify the list of objects to scan.

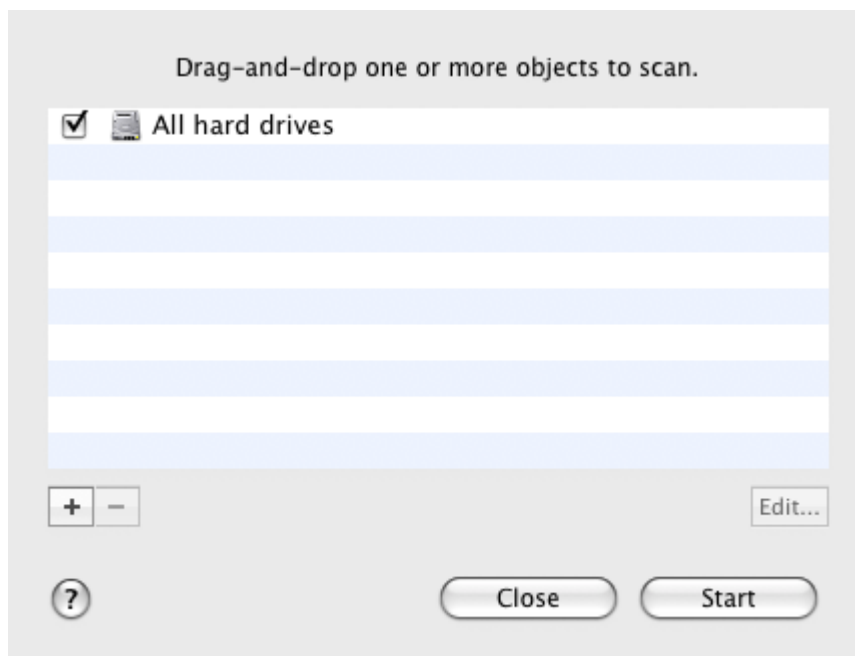



Figure 33. Creating a list of objects to scan

➤ To select one or several objects to scan while running the **Virus Scan** task:

1. Open the main application window (on page [32](#)) and click the  button.
2. In the menu that opens select the **Virus scan** task. A window will open in which to create a list of objects (see figure above). Edit the list using the algorithm described above.

## CONFIGURING VIRUS SCAN TASKS

Tasks are executed on your computer according to the following settings:

- **Security level**

The security level is a set of parameters that define the balance between the thoroughness and speed of scanning objects. There are three preset security levels (see section "Selecting the security level" on page [71](#)) with settings developed by Kaspersky Lab.

- **Action on detected object**

This action (see section "Selecting actions on objects" on page [73](#)) defines how Kaspersky Endpoint Security will react when an infected or potentially infected object is detected.

- **Run mode**

Automatically running virus scan according to a schedule (see section "Configuring the virus scan task schedule" on page [74](#)) enables you to scan your computer for viruses in due time. Only available for the **Quick Scan**, **Full Scan** tasks, and custom tasks.

- **Launching task under user account**

Launching the task under a privileged user account (see section "Launching scan task under user account" on page [75](#)) enables you to perform a timely scan, regardless of the rights of the current user. Only available for the **Quick Scan**, **Full Scan** tasks, and custom tasks.

In addition, you can set uniform values for the **Security level** and **Action** to be taken on detected objects for all virus scan tasks (see section "Assigning uniform values for all virus scan tasks" on page [76](#)).

## SELECTING THE SECURITY LEVEL

Each scan task ensures objects are scanned at one of the following levels:

- **Maximum protection** - the most complete **scan** of the entire computer or individual disks, folders, or files. We recommend this level if you suspect that your computer is infected with a virus.
- **Recommended** contains the settings recommended by Kaspersky Lab.
- **Maximum Speed** - this level enables you to comfortably use other applications that require significant system resources, since the range of files scanned is smaller.

By default, virus scan tasks are executed at the **Recommended** security level. You can increase or decrease the thoroughness of the scan by selecting **Maximum protection** or **Maximum speed** accordingly, or by modifying the current settings.

➤ *To modify the security level of a virus scan task, do the following:*

1. Open the application preferences window (on page [34](#)) and select the **Virus Scan** tab (see figure below).
2. Select the task in the list to the left.
3. In the **Security level** section, move the slider bar to the required position. Changing the security level changes the balance between the scan speed and the total number of files scanned: the fewer files scanned for viruses, the higher the scan speed.

If none of the preset security levels meets your needs, you can customize the scan settings. You are advised to select the level closest to your requirements as a basis and then modify its settings. This will change the name of the security level to **User**.

➤ *To modify the settings for the current security level, do the following:*

1. Open the application preferences window (on page [34](#)) and select the **Virus Scan** tab (see figure below).
2. Select the task in the list to the left.
3. In the **Security level** section, click the **Preferences** button.

- In the window that opens modify the settings (see section "Defining the types of objects to scan" on page 72) and click **OK** to save the changes.

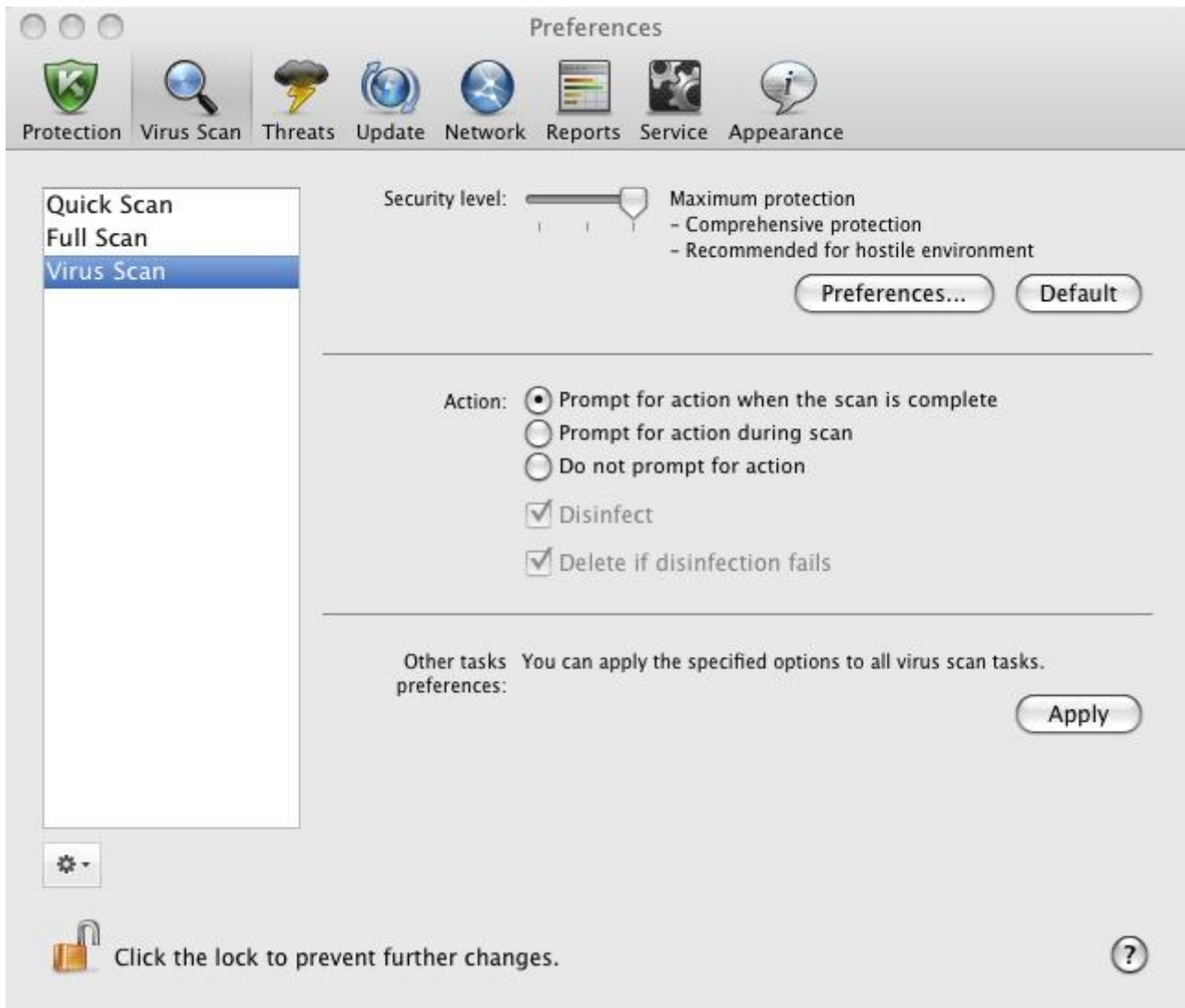


Figure 34. Application preferences window. The Virus Scan task

## SPECIFYING THE TYPES OF OBJECTS TO SCAN

By specifying the types of objects to scan, you define the size and format of the files that Kaspersky Endpoint Security will scan when the task is executed.

➤ To specify the types of objects to scan during the virus scan task, do the following:

- Open the application preferences window (on page 34) and select the **Virus Scan** tab.
- Select the task in the list to the left.
- In the **Security level** section, click the **Preferences** button. In the window that opens (see figure below) configure the following settings:
  - In the **File types** section, specify file formats that should be scanned by Kaspersky Endpoint Security when running the virus scan tasks.
  - In the **Optimization** section, configure the scan performance and use of scan technology.



- In the **Compound files** section, specify which compound files should be scanned for viruses.
- In the **Heuristic analyzer** section, configure the use of the heuristic analyzer in virus scan tasks.

Figure 35. Virus Scan. Configuring scan settings

## SELECTING ACTIONS ON OBJECTS

If a virus scan task reveals that an object is infected or potentially infected, the subsequent behavior of Kaspersky Endpoint Security depends on the status of the object and the selected action.

When the scan is complete, the object may be identified as:

- malicious, for example, a *virus* or *Trojan*;
- *potentially infected* when the scan cannot determine whether the object is infected or not. The application has probably found in the file a sequence of code from an unknown virus or modified code from a known virus.

By default, all malicious objects undergo disinfection and all potentially infected objects are placed in Quarantine (see section "Quarantine" on page [90](#)).

➤ To select the action that Kaspersky Endpoint Security should perform if an infected or potentially infected object is detected:

1. Open the application preferences window (on page [34](#)), select the **Virus Scan** tab and the name of the task in the list to the left (see figure below).

- In the **Action** section, select an action to be performed by Kaspersky Endpoint Security.

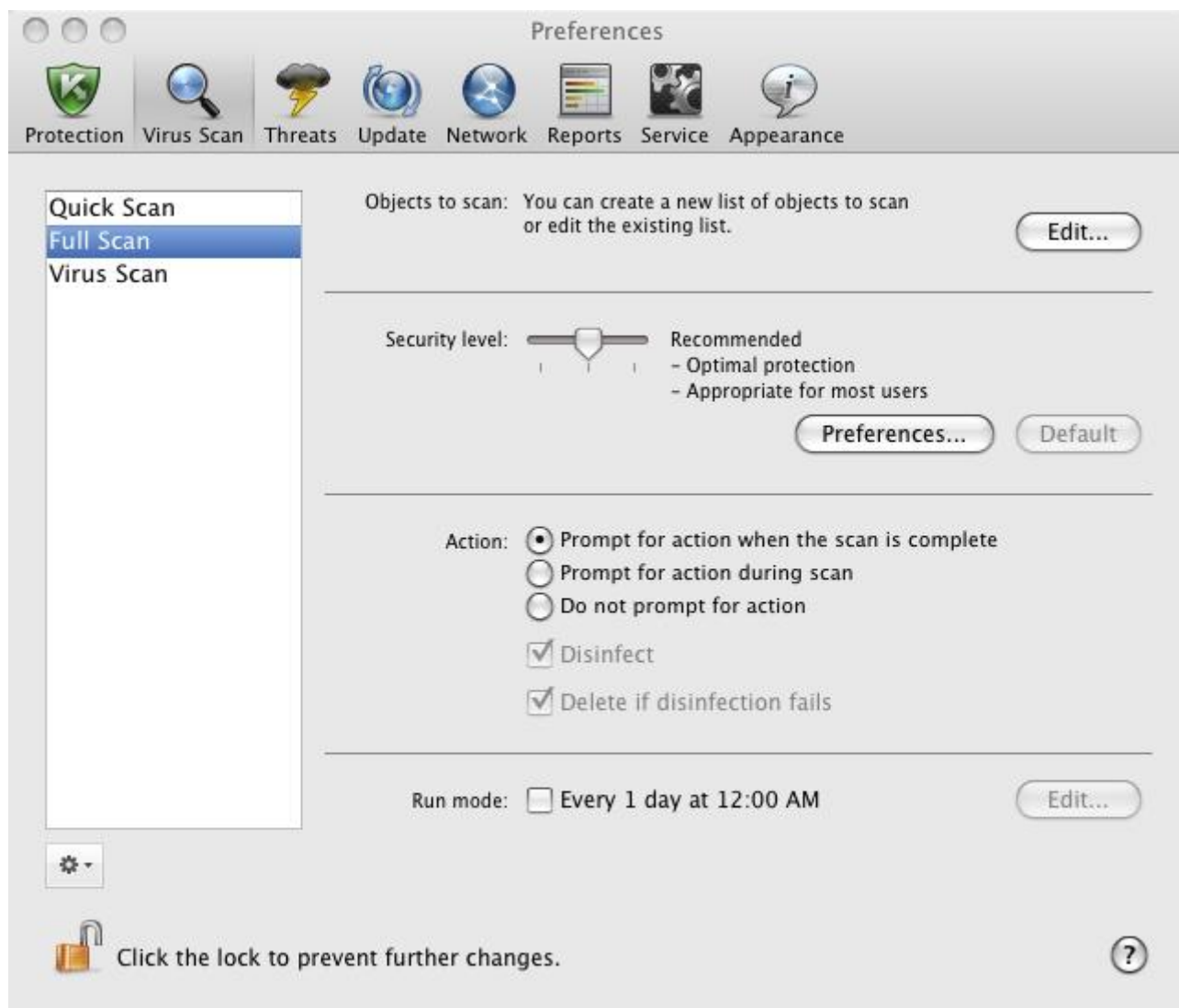


Figure 36. Application preferences window. The Full Scan task

Before disinfecting the object or deleting it, Kaspersky Endpoint Security creates a backup copy and places it in the backup (on page 92) in case the object needs to be restored, or it becomes possible to disinfect it.

## CONFIGURING THE VIRUS SCAN TASK SCHEDULE

All virus scan tasks on your computer can be run manually (see section "Launching / pausing virus scan tasks" on page 65). In addition, the **Quick Scan** and **Full Scan** tasks, and user-created tasks can be run in Kaspersky Endpoint Security according to a pre-defined schedule.

- To configure the startup of the **Quick Scan** and **Full Scan** tasks as well as custom virus scan tasks upon a schedule:
  - Open the application preferences window (on page 34) and select the **Virus Scan** tab.
  - In the list to the left, select the name of a virus scan task and enable the scheduled task run in the **Run mode** section. Click the **Edit** button to configure the task settings.

- In the window that opens (see figure below), set the frequency with which the task will be launched.

Figure 37. Configuring a virus scan task schedule

## RUNNING SCAN TASKS UNDER USER ACCOUNT

The application allows the user to run virus scan tasks under a different user account. This ensures that the computer is scanned in due time, regardless of the rights of the current user. For example, you might need access rights to a certain object during a scan. By using this feature, you can configure tasks to run under a user account with the necessary privileges.

This service is disabled by default so that tasks are started under the current account, under which you have been logged in the operating system.

You can configure the **Quick scan** and **Full scan** tasks under a privileged user account, as well as user virus scan tasks created on their basis.

➔ To specify an account, under which virus scan tasks should be started :

- Open the application preferences window (on page [34](#)) select the **Virus Scan** tab.
- In the list to the left, select the name of a virus scan task and enable the scheduled task run in the **Run mode** section. Click the **Edit** button to configure the task under a user account.

3. In the window that opens (see figure below), in the **Run as** section, select the account, under which the task will be started, from the dropdown list.

Figure 38. Configuring a virus scan task schedule

## ASSIGNING UNIFORM SCAN SETTINGS TO ALL TASKS

By default, virus scan tasks included in the Kaspersky Endpoint Security installation package are run according to the settings recommended by Kaspersky Lab experts. User tasks created on their basis inherit all the settings. You can not only modify the settings (see section "Configuring virus scan tasks" on page [70](#)) of each task separately, but assign uniform values for all virus scan tasks. The **Security level** and **Action** settings in the **Virus Scan** task assigned to scan a particular object are used as a basis.

◆ To assign uniform scan settings for all tasks:

1. Open the application preferences window (on page [34](#)) and select the **Virus Scan** tab (see figure below).
2. In the list to the left select the **Virus Scan** task (see figure below).
3. Select the security level (see section "Selecting the security level" on page [71](#)) that most closely matches your requirements, modify the settings (see section "Specifying the types of objects to scan" on page [72](#)) and select the action to take on infected or potentially infected objects (see section "Selecting actions on objects" on page [73](#)).

4. In the **Other task preferences** section, click the **Apply** button. Kaspersky Endpoint Security applies the values of the **Security level** and **Action** preferences to other virus scan tasks, including custom ones.

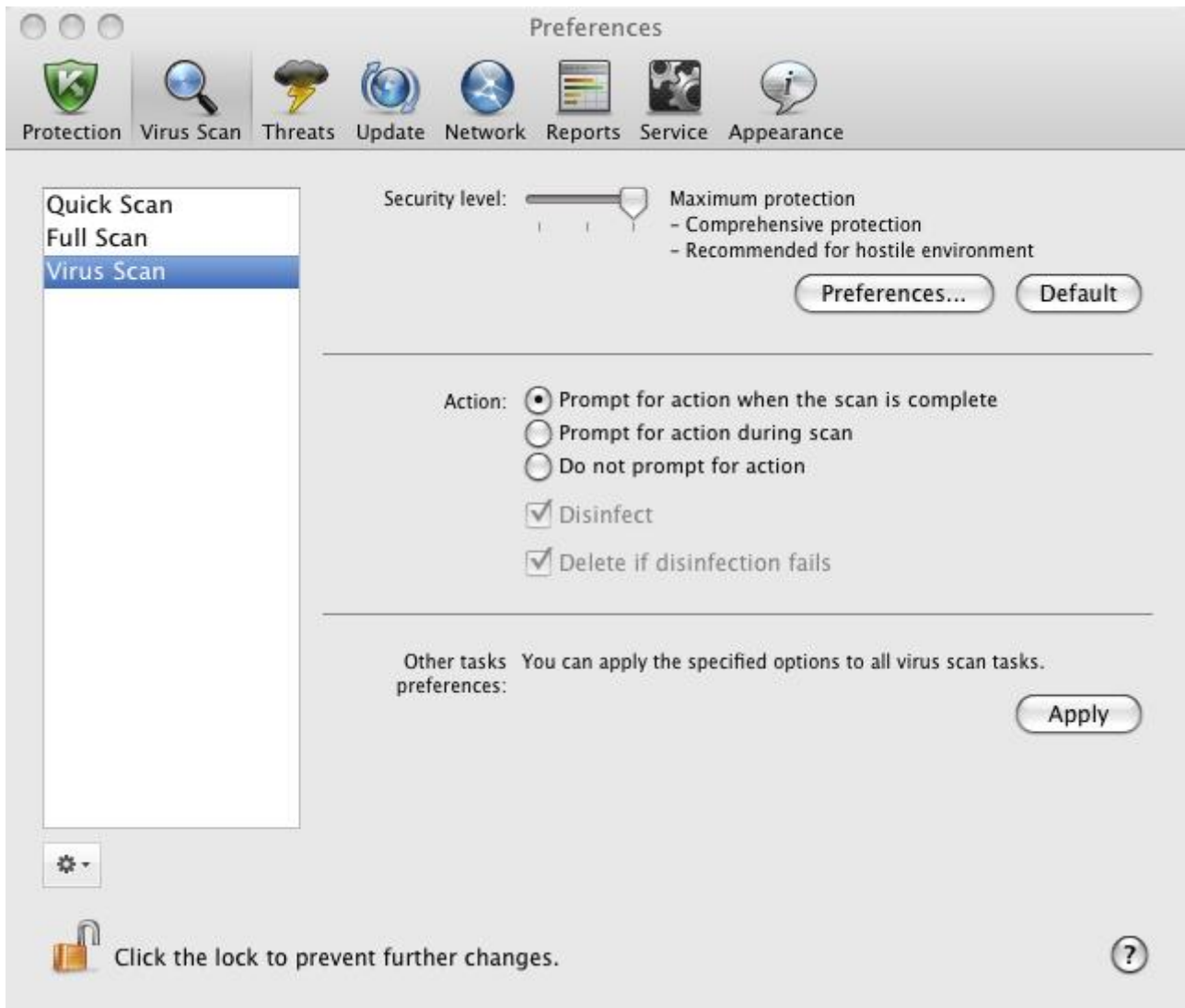


Figure 39. Application preferences window. The Virus Scan task

## RESTORING DEFAULT SCAN SETTINGS

You can restore the default virus scan settings at any time. They are considered optimal, recommended by Kaspersky Lab, and grouped in the **Recommended** security level.

➔ To restore the default scan settings, do the following:

1. Open the application preferences window (on page [34](#)), select the **Virus Scan** tab and then the name of the required task from the list on the left.

- Under **Security level** (see figure below) click the **Default** button. This restores the recommended task settings.

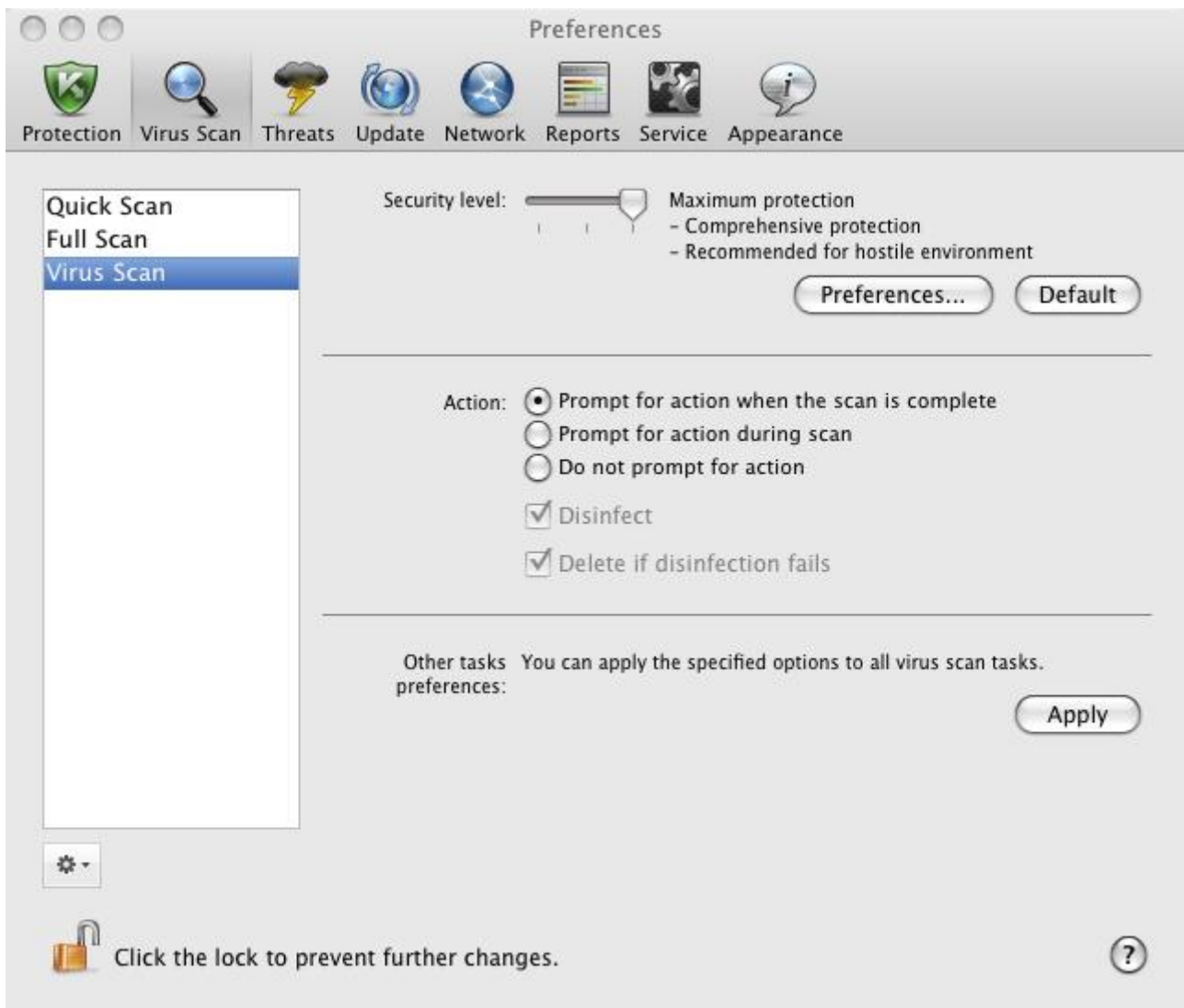



Figure 40. Application preferences window. The Virus Scan task

## VIRUS SCAN STATISTICS

A brief summary on the execution of every current task (in percentages) is provided in the main application window (see section "Main application window" on page [32](#)).

Also, Kaspersky Endpoint Security provides you with a detailed report of virus scan tasks run.

➤ To view a report on the run of the current task:

- Open the main application window (on page [32](#)) and click the  button.
- In the **Running tasks** section of the report window that opens, select the name of the required task.

If the task is already complete, information about the results are provided in the **Completed tasks** section.

Information about the progress of the current task or brief statistics on the results of the completed task are displayed in the lower part of the report window. It contains information on the number of objects scanned, the number of malicious

objects detected and the number of objects to be processed. Scan start time, estimated completion time, and duration are also displayed.

If any errors occur during the scan, run the task again. If the attempt to re-run the task also results in an error, contact Kaspersky Lab Technical Support Service (see section "Contacting Technical Support Service" on page 152).

Detailed information about the execution of virus scan tasks is provided in the report window to the right on the following tabs:

- The **Detected** tab lists all the dangerous objects detected while the task was running. For each object the name and path to the folder where it is stored are displayed, as well as the status it has been assigned by Kaspersky Endpoint Security. If the malicious program that has infected the object is revealed, the object is assigned the corresponding status, for example, *virus*, *Trojan*, etc. If the type of malicious effect cannot be established precisely, the object is assigned the *suspicious* status. The action taken on the object is also specified next to the status (*detected*, *disinfected*).
- The **Events** tab keeps a full list of events that occur while the virus scan task is running with the time, name, status and cause of each event. The events can have the following statuses:
  - *information* (for example, object not processed, skipped by type);
  - *warning* (for example, a virus is detected);
  - *comment* (for example, archive is password-protected).
- The **Statistics** tab provides information about the total number of scanned objects and, in separate columns, how many objects out of the total number scanned are archives, how many are dangerous, how many have been disinfected, how many have been placed in Quarantine, etc.
- The **Preferences** tab lists the main settings used to run the virus scan task. To configure a component quickly, click the **Change preferences** button.

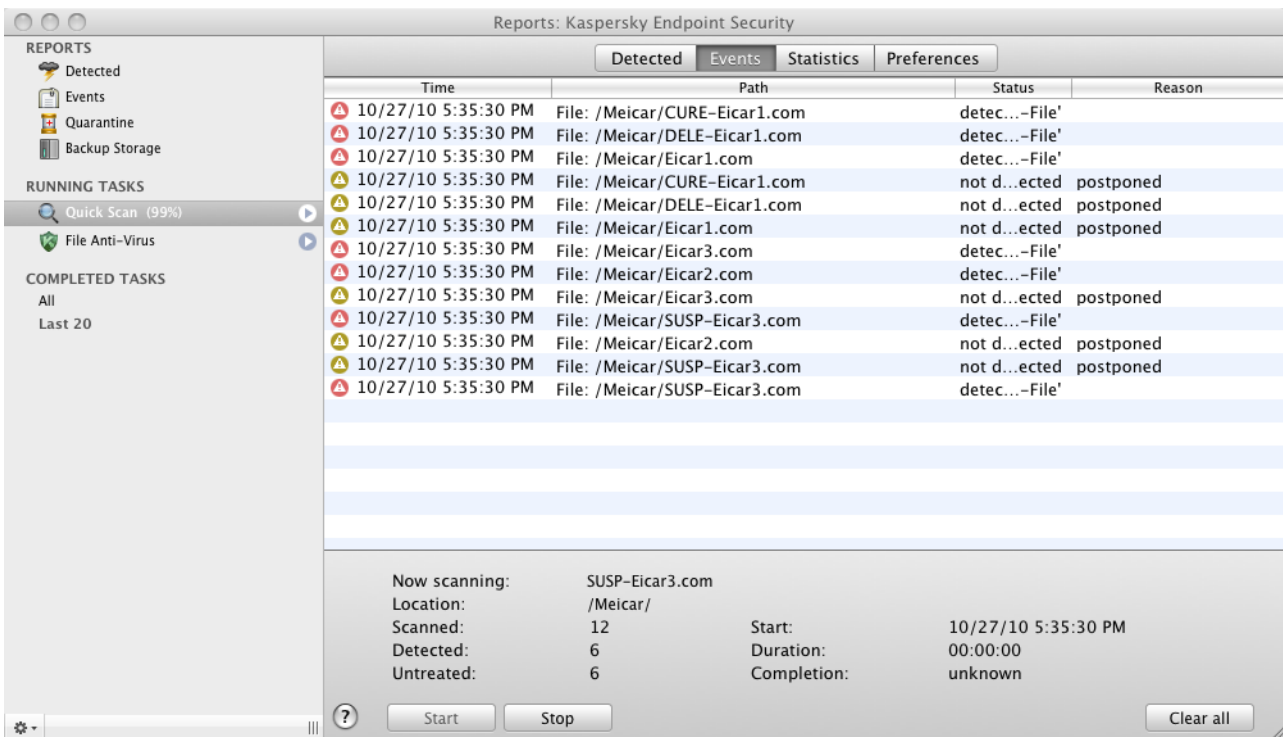


Figure 41. Report window. Virus Scan

## UPDATING THE APPLICATION

Keeping anti-virus databases up-to-date is vital for the security of your computer. As new viruses, Trojans, and malicious software emerge daily, it is extremely important to update the application regularly to keep your data permanently protected.

Kaspersky Endpoint Security update means that the following components will be downloaded and installed on your computer:

- **Anti-virus databases**

The Anti-virus databases protect the data on your computer. File Anti-Virus (on page [53](#)) and virus scan tasks (see section "Scanning for viruses" on page [64](#)) use them to find and deal with malicious objects on your computer. Virus databases are updated hourly with new threats and ways to fight them, so it's important to update them regularly.

- **Application modules**

In addition to the databases, you can update the internal modules of Kaspersky Endpoint Security. Kaspersky Lab regularly releases update packages.

Main update sources of Kaspersky Endpoint Security are dedicated Kaspersky Lab update servers and Kaspersky Administration Kit Administration Server.

An Internet connection is required to download updates from the servers. If the Internet connection is established using a proxy server, adjust the network settings (see section "Configuring connection to a proxy server" on page [87](#)).

If you cannot access the Kaspersky Lab update servers (for example, your Internet connection is down), contact Kaspersky Lab Technical Support Service (see section "Contacting Technical Support Service" on page [152](#)) to receive the Kaspersky Endpoint Security updates on disk in ZIP format.

Updates can be downloaded in one of the following modes:

- *Automatically.* Kaspersky Endpoint Security regularly checks for an update package in the update source. During a virus outbreak the frequency of the checks may increase and decrease afterwards. If Kaspersky Endpoint Security detects new updates, it downloads them in the background and installs on the computer. This is the default mode.
- *By schedule.* Kaspersky Endpoint Security is automatically updated according to a schedule.
- *Manually.* In this case, you launch the Kaspersky Endpoint Security update manually.

During an update the application modules and anti-virus databases are compared with the ones currently available at the update source. If the most recent version of the databases and modules are installed on your computer, the bottom part of the main application window (see section "Main application window" on page [32](#)) displays a message that the anti-virus databases are up-to-date. If the bases and modules differ from those currently available at the update source, only the missing components of the update will be installed on your computer. Databases and modules are not copied in their entirety, which allows increasing update speed and reducing Internet traffic.

Prior to updating the databases and modules, Kaspersky Endpoint Security creates backup copies of them in case you need to rollback. Update rollback feature (see section "Rolling back the last update" on page [81](#)) may be useful if a new version of the databases contains an invalid signature that makes Kaspersky Endpoint Security block a safe application.

In case of Kaspersky Endpoint Security database corruption, it is recommended to run the update task to download a valid set of databases for up-to-date protection.

At the same time as updating Kaspersky Endpoint Security, you can copy the downloaded updates to a local source (see section "Updating from a local source" on page [82](#)). The service allows you to update Kaspersky Endpoint Security databases and modules used by the application locally on other computers to reduce Internet traffic.




**IN THIS SECTION:**

Starting update .....	<a href="#">81</a>
Rolling back the last update .....	<a href="#">81</a>
Updating from a local source.....	<a href="#">82</a>
Configuring the update .....	<a href="#">84</a>
Update statistics .....	<a href="#">88</a>

**STARTING UPDATE**

Updating Kaspersky Endpoint Security in a timely manner keeps your computer protected at a due level. If the anti-virus databases and modules are not updated, the information on your computer is at serious risk.

The bottom part of the main application window (see section "Main application window" on page [32](#)) displays the latest information about Kaspersky Endpoint Security updates: the release date of anti-virus databases, the number of records contained in the databases installed on your computer, and information about their actuality. The number of records in the databases reflects the number of currently known threats against which the computer is protected.

While using Kaspersky Endpoint Security, you can run the application update at any moment. To do so, click the  button in the main window. Detailed information about the execution of this task is displayed in the report window (see section "Reports" on page [94](#)).

At the same time as updates are downloaded from the Kaspersky Lab servers or from Kaspersky Administration Kit Administration Server, they will be copied to a local source (see section "Updating from a local source" on page [82](#)), given that the service is enabled.

**ROLLING BACK THE LAST UPDATE**

Every time you run the application update, Kaspersky Endpoint Security first creates a backup copy of the databases and modules in use, and only after that starts updating them. This operation procedure allows you to return to the previous version of the databases, if necessary. Update rollback feature may be useful in case a new version of the databases contain an invalid signature that makes Kaspersky Endpoint Security block a safe application.

In case of Kaspersky Endpoint Security database corruption, it is recommended to run the update task to download a valid set of databases for up-to-date protection.

➔ *To rollback the anti-virus databases, do the following:*

1. Open the application preferences window (on page [34](#)) and select the **Update** tab (see figure below).
2. In the **Roll back update** section, click the **Roll back update** button.

You can view the results of the rollback in the report window (see section "Virus scan statistics" on page [88](#)).

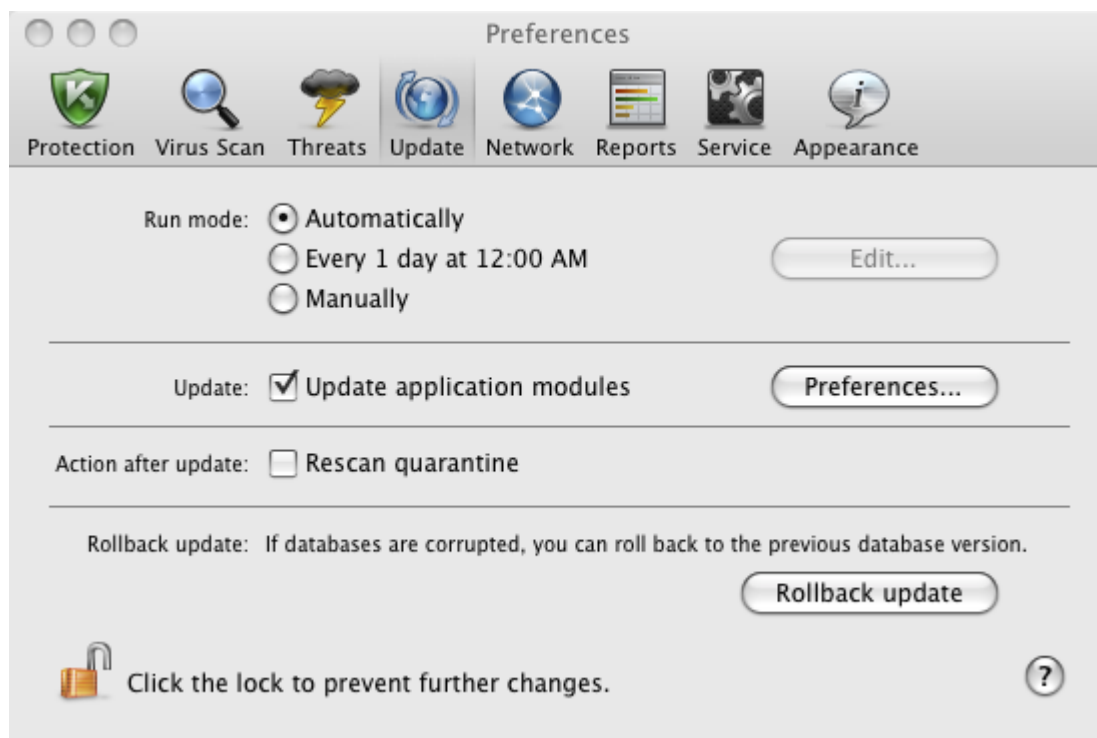


Figure 42. Application preferences window. Update

## UPDATING FROM A LOCAL SOURCE

If several computers are connected via a local network, there is no need to download Kaspersky Endpoint Security updates for each of them separately since this would significantly increase the network traffic. You can use the update distribution service to locally update the Kaspersky Endpoint Security anti-virus databases and modules used by the application on other computers, thereby reducing Internet traffic. To do so, set up update distribution as follows:

1. One of the computers on the network retrieves the Kaspersky Endpoint Security update package from the Kaspersky Lab web servers or from Kaspersky Administration Kit Administration Server, or from another web resource hosting the current set of updates. The updates retrieved are placed in a shared folder.

Shared folder should be created in advance.

2. Other computers on the network refer to the shared folder as the update source.

➡ To enable the update distribution service, do the following:

1. Open the application preferences window (on page [34](#)) and select the **Update** tab (see figure below).

- In the **Update** section, click the **Preferences** button.

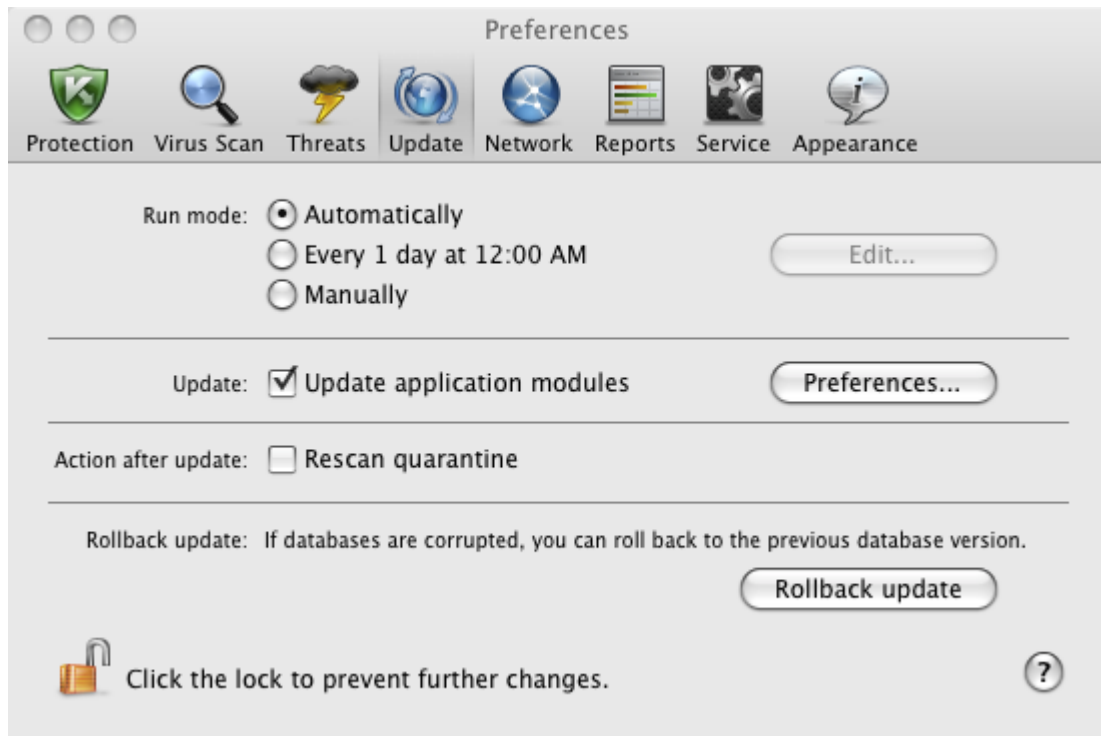


Figure 43. Application preferences window. Update

- In the window that opens, select the **Additional** tab in the window that opens (see figure below). Check the **Copy updates to folder** box and click the **Select** button.
- In the standard window that opens, select a shared folder in which retrieved updates should be saved.

Kaspersky Endpoint Security only retrieves its own exclusive update package from Kaspersky Lab update servers or Kaspersky Administration Kit Administration Server.

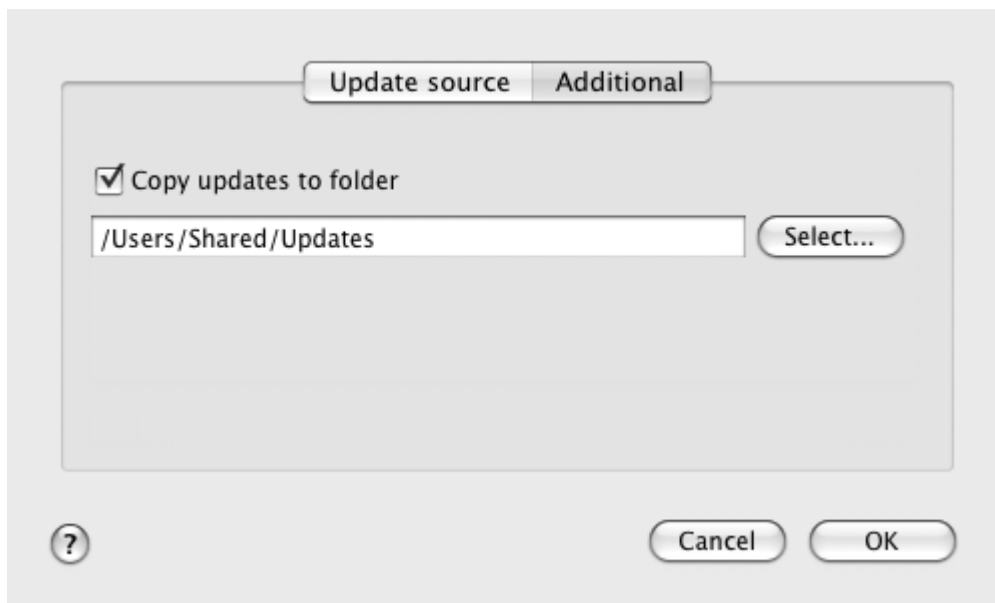


Figure 44. Configuring settings for the update distribution service

## CONFIGURING THE UPDATE

Kaspersky Endpoint Security is only updated in accordance with the following settings:

- **Run mode**

The choice of update mode determines whether the update is launched automatically (recommended by Kaspersky Lab), manually or scheduled. If the latter option is selected, you should create an update task launch schedule (see section "Configuring scheduled update task launch" on page [87](#)).

- **Update object**

The update object determines what is to be updated: only the anti-virus databases or the application databases and the modules. Kaspersky Endpoint Security databases are always updated, and the application modules are only updated if the corresponding box is checked (see section "Selecting the update mode and objects" on page [84](#)).

- **Update source**

Update source is a resource that contains actual files of anti-virus databases and modules for Kaspersky Endpoint Security. Update sources can be HTTP and FTP servers, local or network folders.

- **Network settings**

To download updates from Kaspersky Lab's update servers or sources other than local or network folders, your computers need to be connected to the Internet. If the Internet connection is established using a proxy server, you should adjust the network settings (see section "Configuring connection to a proxy server" on page [87](#)).

## SELECTING THE UPDATE MODE AND OBJECTS

When configuring the update settings of Kaspersky Endpoint Security, it is very important to define the update object and run mode.

➤ *To configure the update task run schedule:*

1. Open the application preferences window (on page [34](#)) and select the **Update** tab (see figure below).
2. In the **Run mode** section, select the update task run mode.

➤ *To allow the application to copy and install not only anti-virus databases but also application modules when running the update:*

1. Open the application settings window (on page [34](#)) and select the **Update** tab (see figure below).
2. In the **Update** section, check the **Update application modules** box.

If module updates are available during execution of the update task, Kaspersky Endpoint Security retrieves and applies them after rebooting your computer. The downloaded module updates will not be installed until the computer restarts. If the next application update becomes available before the computer is restarted and the program module updates downloaded earlier are installed, the databases are only updated.

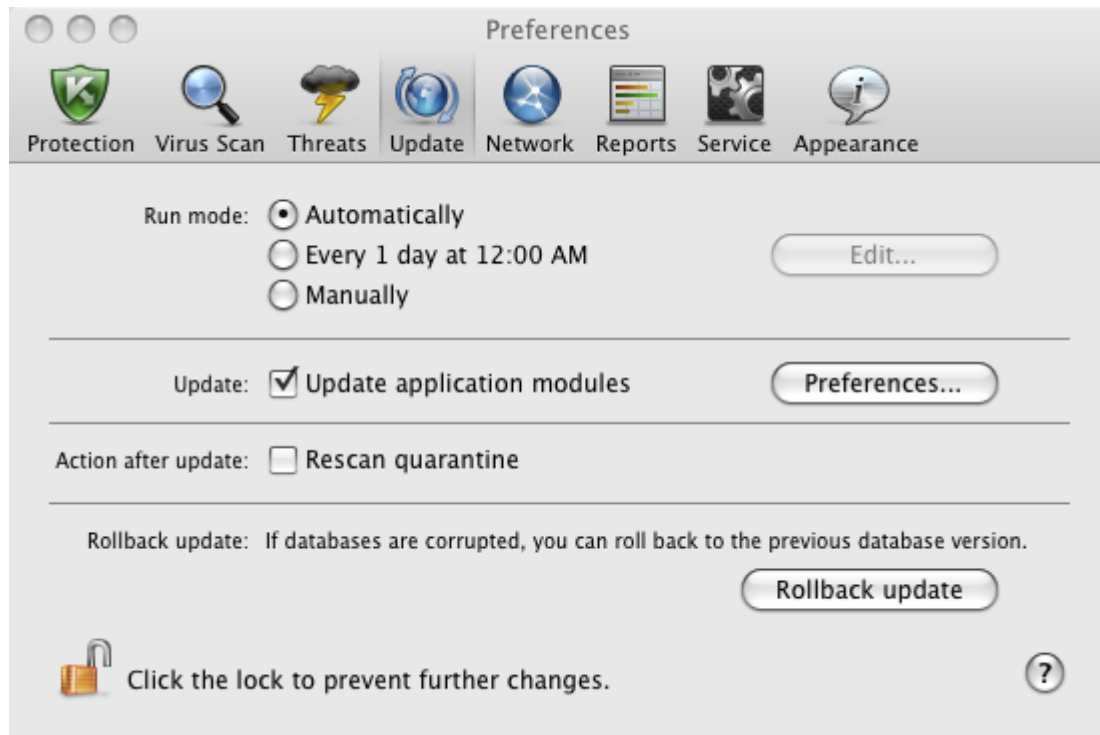


Figure 45. Application preferences window. Update

## SELECTING AN UPDATE SOURCE

The *update source* is a resource containing current files in the Kaspersky Endpoint Security anti-virus databases and modules. Update sources can be HTTP and FTP servers, local or network folders.

The main update source is Kaspersky Lab's update servers. These are special websites where updates of databases and internal modules for all Kaspersky Lab products are stored. Kaspersky Administration Kit Administration Server is also employed as update source for Kaspersky Endpoint Security.

If you cannot access Kaspersky Lab's update servers (for example, there is no Internet connection), contact Technical Support Service to receive the updates in ZIP format. You can copy the updates and upload them to an FTP or HTTP site, or save them in a local or network folder.

When ordering updates on removable media, please specify if you want to receive the updates for internal Kaspersky Endpoint Security modules as well.

◆ To select an update source for Kaspersky Endpoint Security:


1. Open the application preferences window (on page [34](#)) and select the **Update** tab.
2. In the **Update** section, click the **Preferences** button.
3. In the window that opens, select the **Update source** tab (see figure below). Edit the list of update sources, if necessary.

By default, the list of update sources only contains Kaspersky Lab update servers and Kaspersky Administration

Kit Administration Server. When running an update, Kaspersky Endpoint Security refers to this list for the address of the first server on it and attempts to download the updates from this server. If the updates cannot be downloaded from the selected server, the application tries to connect and retrieve the updates from the next server. This continues until a connection is successfully established, or until all the available update servers have been tried. For subsequent updates the application first of all tries to access the server from which the most recent update was successfully made.

You can perform the following actions:

- Add a new update source to the list.

Click the  button and select the most suitable option from the dropdown list (**Path** – for a local or network folder or **URL** – for a HTTP or FTP server). In the window that opens specify the location of the new update source.

- Change the update source.


Select the update source in the list and click the **Edit** button. Make the required changes in the window that opens.

Note that such update sources as Kaspersky Lab update servers and Kaspersky Administration Kit Administration Server cannot be edited or deleted.

- Temporarily disable retrieval of updates from the source.

Select the update source in the list and uncheck the box next to it. Kaspersky Endpoint Security will not be updated from this source until the box is checked again.

- Delete update source.

Select the update source in the list and click the  button.

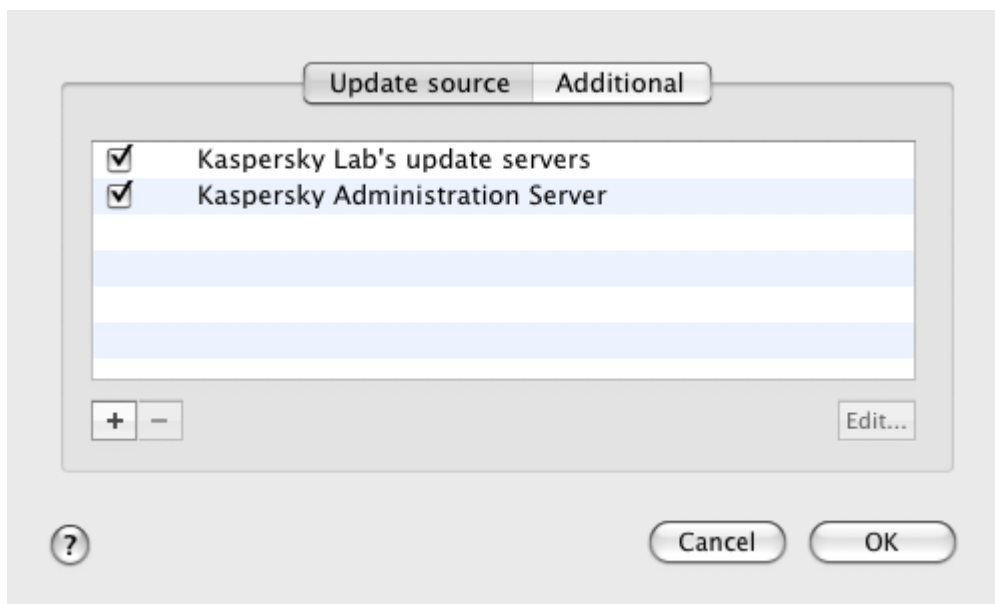


Figure 46. Selecting an update source

## CONFIGURING SCHEDULED UPDATE TASK LAUNCH

By default, Kaspersky Endpoint Security is updated automatically. You can select another update run mode: manual or scheduled.

- *To configure the launch of the scheduled update task for Kaspersky Endpoint Security:*
  1. Open the application preferences window (on page [34](#)) and select the **Update** tab.
  2. In the **Run mode** section, select the option to run a scheduled update and click the **Edit** button.
  3. In the window that opens (see figure below), set the frequency with which the task will be launched.

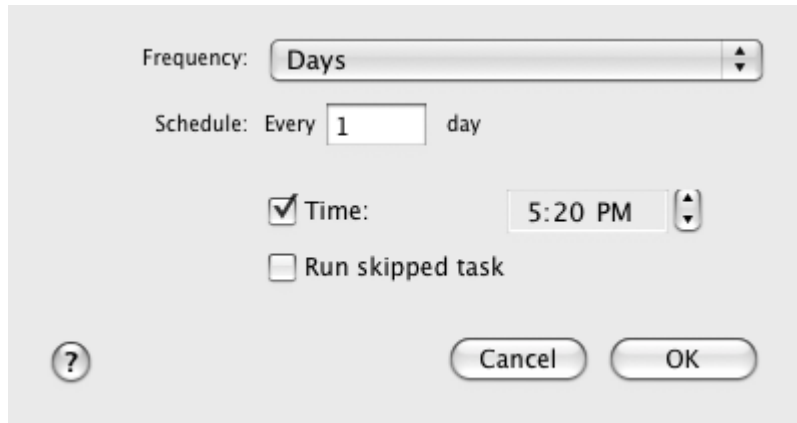


Figure 47. Configuring the update task schedule

## CONFIGURING CONNECTION TO A PROXY SERVER

If your computer connects to the Internet through a proxy server, configure the settings for it. Kaspersky Endpoint Security uses these settings for updating anti-virus databases and modules.

- *To configure a connection to a proxy server, do the following:*
  1. Open the application settings window (on page [34](#)) and select the **Network** tab (see figure below).
  2. In the **General** section, check the **Use proxy server** box.

- In the **Proxy server** section, configure the proxy server.

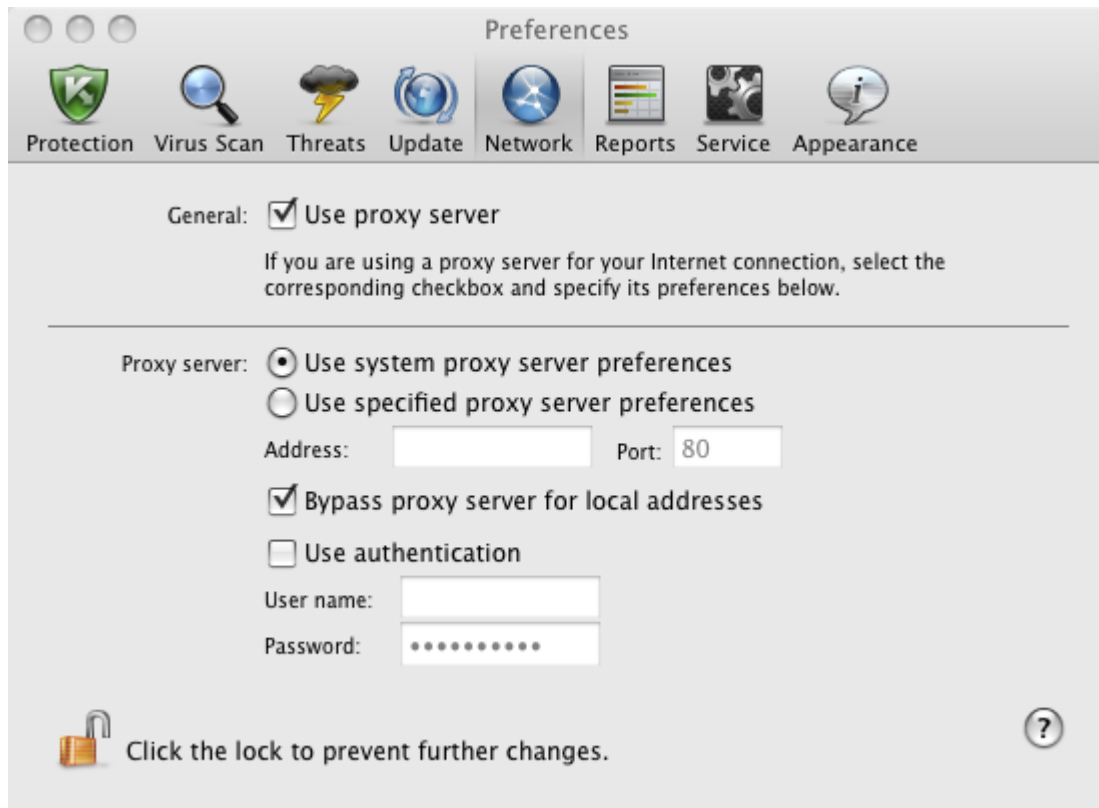


Figure 48. Application preferences window. Network

If you are downloading the update from an FTP server, connection to the server is in passive mode by default. If this connection fails, it will attempt to connect in active mode.

By default, the time assigned to connect to an update server is one minute. If a connection cannot be established, after this period an attempt is made to connect to the next update source in the list. This continues until a connection is successfully established, or until all the available update servers have been tried.


## UPDATE STATISTICS

Brief statistics on the current update service (release date of anti-virus databases, number of database records, information about the actuality of databases) are provided in the lower part of the main application window (see section "Main application window" on page [32](#)).

If you have not previously updated Kaspersky Endpoint Security, there will be no information about the most recent update.

Also, Kaspersky Endpoint Security provides you with a detailed report on the update task run.

➔ To view a report on the run of the current task:

- Open the main application window (on page [32](#)) and click the  button.
- In the **Running tasks** section of the report window that opens, select the **Update** task.

Information about the results of the latest updates can be viewed in the **Completed tasks** section.



Information about the progress of the current task or brief statistics on the results of the completed task are displayed in the lower part of the report window. If the update is completed successfully, the statistics include information about the size of the updates copied and installed, the speed with which they were performed, the start and completion time, and the duration of the task.

If the operation fails, make sure that the update settings are correct and that the update source is available. Restart the update. If the attempt also results in an error, contact Kaspersky Lab Technical Support Service (see section "Contacting Technical Support Service" on page 152).

Detailed information about the execution of virus scan tasks is provided in the report window to the right on the following tabs:

- The **Events** tab lists all operations performed during the update process in sequence, with the names of the updated objects, the paths to the folders in which they are stored, and the time taken to access them.
- The **Preferences** tab lists the main settings used to perform the update. To configure a component quickly, click the **Change preferences** button.

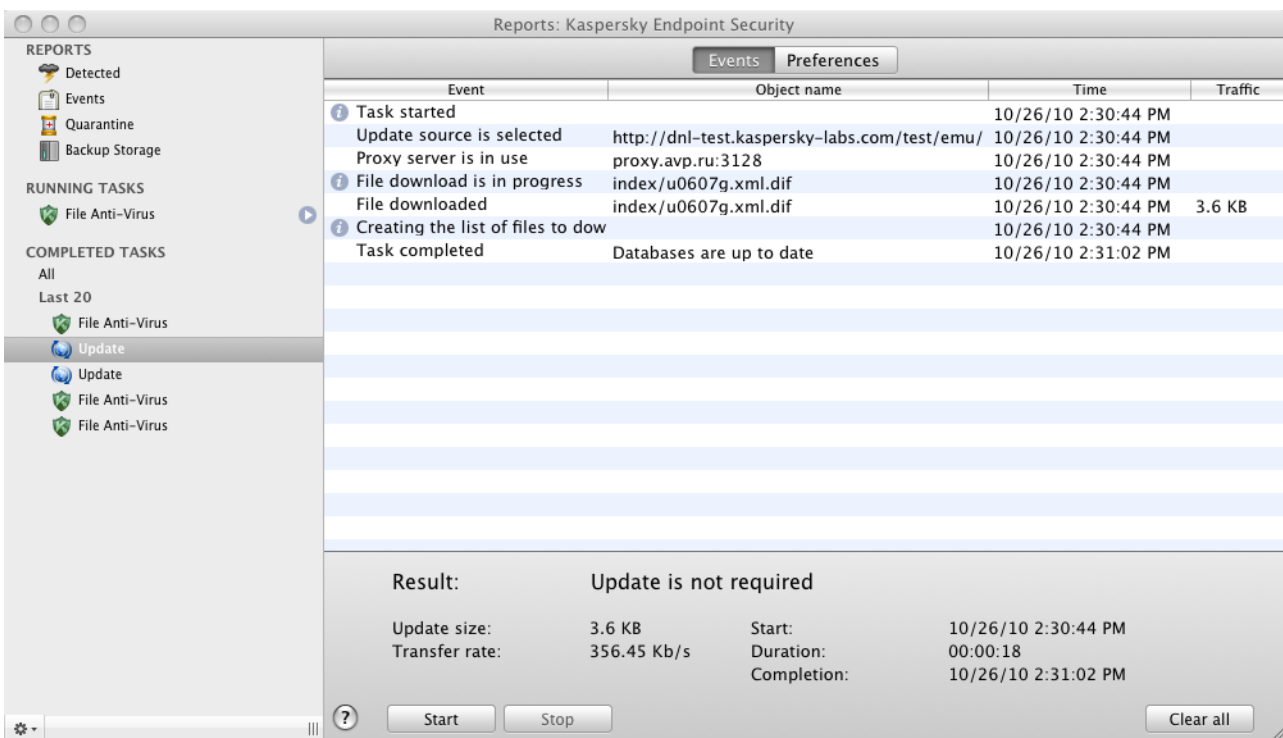


Figure 49. Report window. Update

## REPORTS AND STORAGES

Kaspersky Endpoint Security allows you to move potentially infected objects to Quarantine, create copies of infected objects in Backup Storage before disinfection or deletion, and create detailed reports on any application component's operation.

**IN THIS SECTION:**

Quarantine .....	<a href="#">90</a>
Backup Storage.....	<a href="#">92</a>
Reports.....	<a href="#">94</a>
Configuring reports and storages .....	<a href="#">96</a>

**QUARANTINE**

*Quarantine* is a special repository containing the objects that are potentially infected with viruses.

*Potentially infected objects* are objects suspected by Kaspersky Endpoint Security of being infected with viruses or their modifications. The *potentially infected* status can be assigned to an object in the following cases:

- The code of the object being analyzed resembles a known threat but is partially altered.

Kaspersky Endpoint Security anti-virus databases contain threats that have been already analyzed by Kaspersky Lab specialists. If the databases do not yet contain any information about this modification of a malicious program, Kaspersky Endpoint Security recognizes objects infected with this modification as potentially infected ones and finds a threat that seems the most similar to this type of infection.

- The code of the detected object resembles a malicious program in terms of its structure, but Kaspersky Endpoint Security does not contain any records similar to it.

It is quite possible that this is a new type of threat, so Kaspersky Endpoint Security classifies that object as a potentially infected object.

Potentially infected objects can be detected and placed in Quarantine by File Anti-Virus (see section "File Anti-Virus" on page [53](#)) or during a virus scan (see section "Scanning for viruses" on page [64](#)).


Additionally, you can move an object to Quarantine manually by clicking the **Quarantine** button in a special notification (see section "What to do when the application's notifications appear" on page [48](#)) that appears on the screen when a potentially infected object is detected.

When Kaspersky Endpoint Security moves a potentially infected object to Quarantine, it deletes it from the current folder and saves it in the Quarantine folder. Files in Quarantine are stored in a special format and are not dangerous.

**VIEWING THE CONTENTS OF QUARANTINE**

You can view the contents of Quarantine in the **Quarantine** section in the report window (see figure below).

➤ *To view the contents of Quarantine, do the following:*

1. Open the main application window (on page [32](#)) and click the  button. The Kaspersky Endpoint Security report window opens.

- In the left part of the report window, select **Quarantine**. The contents of Quarantine are displayed in the right-hand part of the window.

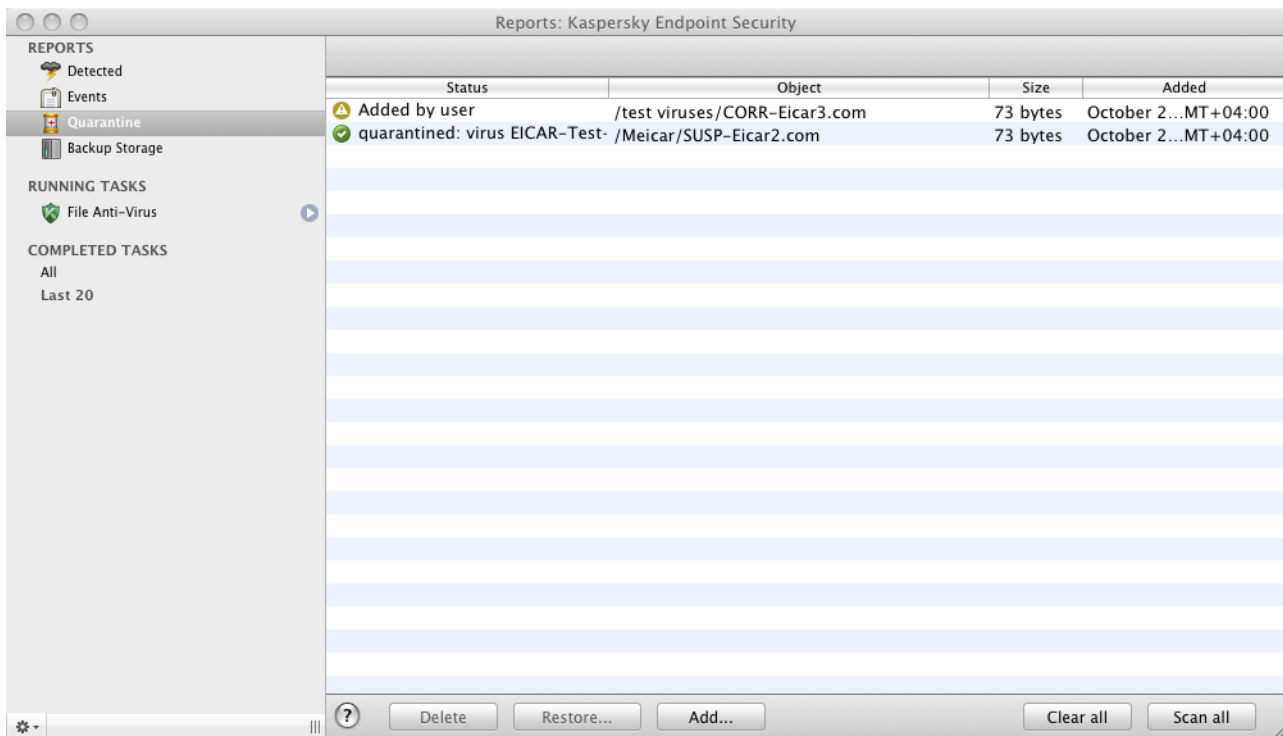


Figure 50. Report window. Quarantine

## ACTIONS ON QUARANTINED OBJECTS

Kaspersky Endpoint Security allows you to carry out the following actions on potentially infected objects:

- Manually move to Quarantine files that you suspect are infected but have not been detected by Kaspersky Endpoint Security.

To do this, in the Quarantine window (see figure below), click the **Add** button and select the required file in the standard window that opens. It is added to the list with the *added by user* status.

- Scan and disinfect all potentially infected quarantined objects, using the current version of Kaspersky Endpoint Security databases.

To do this, in the Quarantine window (see figure below), click the **Scan all** button. Scanning and disinfecting any quarantined object may change its status to *false positive* or *quarantined*.

By default, Kaspersky Endpoint Security automatically scans quarantined objects after each update (see section "Scan of Quarantine after update" on page [92](#)).

- Restore files to the folder specified by the user or the folder from which they were moved to Quarantine (by default).

To restore an object, select it in the Quarantine window (see figure below) and click the **Restore** button. Confirm the action. When restoring objects quarantined from archives, mail databases or mail format files, you should also specify the directory in which they will be restored.

*We recommend that you only restore objects with the **false positive** status since restoring objects with different statuses may lead to your computer becoming infected.*

- Delete any object in Quarantine.

Only delete objects that cannot be disinfected. To delete an object, select one in the Quarantine window (see figure below) and click the **Delete** button. To clear Quarantine storage, click the **Clear all** button. You can also configure automatic deletion of the oldest objects in Quarantine (see section "Configuring Quarantine and Backup Storage" on page [97](#)).

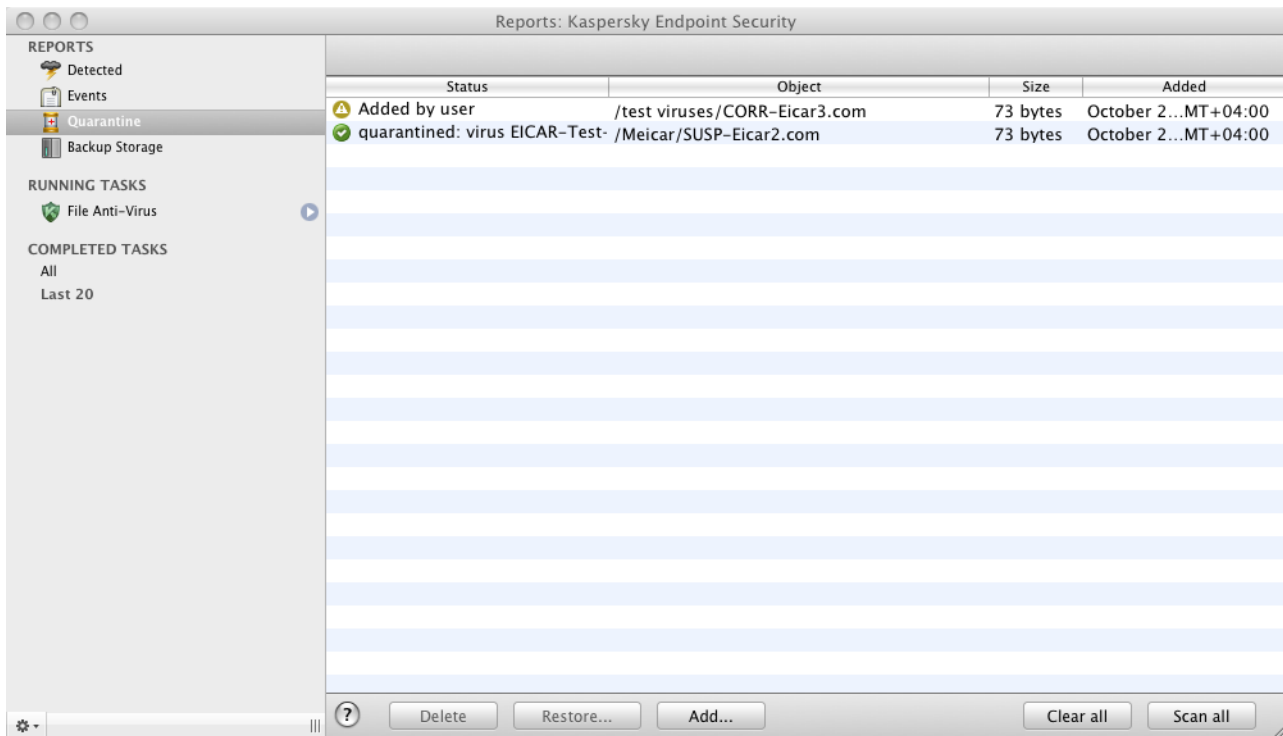


Figure 51. Report window. Quarantine

## SCAN OF QUARANTINE AFTER UPDATE

Each package of anti-virus database updates contains new records to protect your computer from the most recent threats. Kaspersky Lab specialists recommend that you scan potentially infected objects stored in Quarantine immediately after update (see section "Quarantine" on page [90](#)).

Quarantine stores objects whose contents include malware that was not properly identified by File Anti-Virus or during a virus scan task. After the databases are updated, Kaspersky Endpoint Security will probably be able to clearly identify and eliminate the threat.

By default, Kaspersky Endpoint Security scans quarantined objects after each update.

Kaspersky Endpoint Security will not be able to scan quarantined objects immediately after updating the databases if you are using Quarantine at that moment.

You can disable scan of quarantined objects after each update of the application by unchecking the corresponding box on the **Update** tab of the application preferences window.

## BACKUP STORAGE

Sometimes it is not possible to save objects in their entirety during the disinfection process. If a disinfected file contained important information that is partly or completely inaccessible following disinfection, you can attempt to restore the original object from its backup copy.


*Backup copy* is a copy of the original dangerous object that is created when first disinfecting or deleting the object, and saved in Backup Storage.

*Backup Storage* is a dedicated storage area containing backup copies of dangerous objects that have been processed or deleted. The main function of Backup is the ability to restore an original object at any time. Files in Backup are saved in a special format and are not dangerous for the operating system.

## VIEWING THE CONTENTS OF BACKUP

You can view the contents of Backup Storage in the **Backup Storage** section of the report window (see figure below).

➔ To view the contents of Backup, do the following:

1. Open the main application window (on page [32](#)) and click the  button. The Kaspersky Endpoint Security report window opens.
2. In the left part of the report window, select the **Backup Storage** section. The contents of Quarantine are displayed in the right-hand part of the window.

The following information is provided for each backup copy: the full name of the object with the path to its original location, the time when it was moved, the status assigned after the scan, and its size.

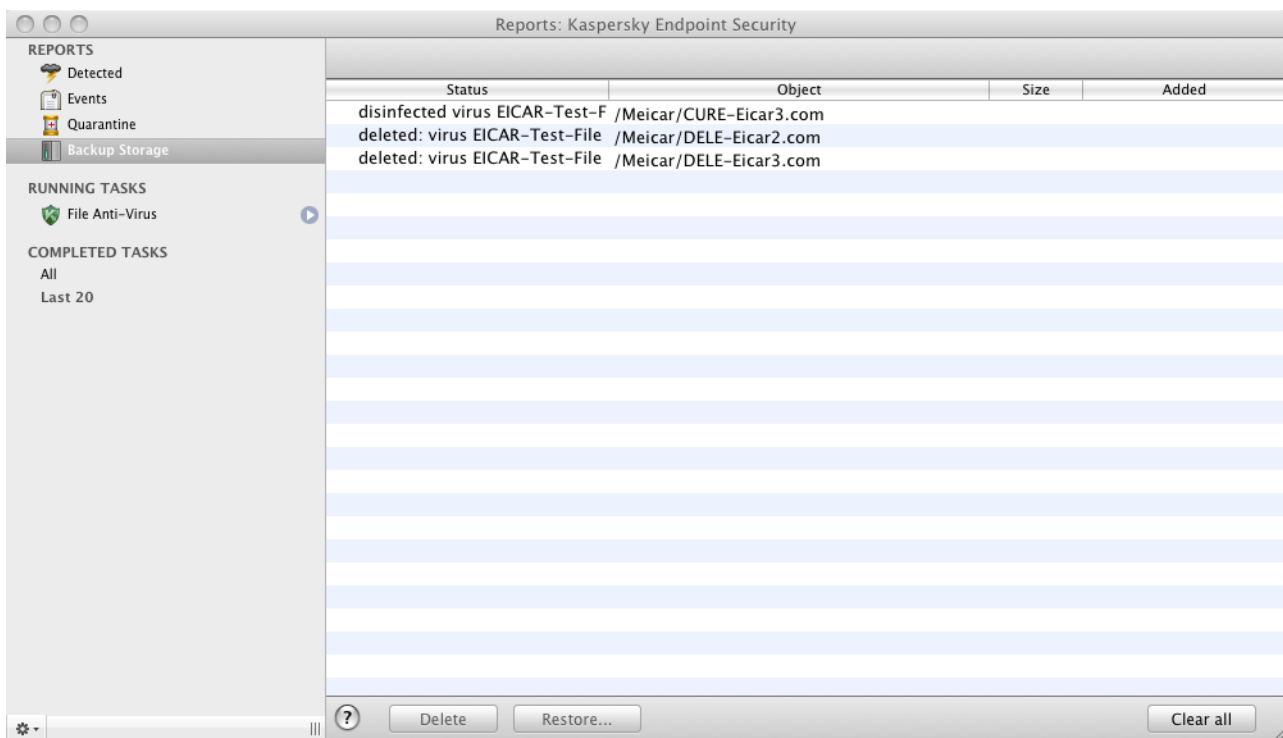


Figure 52. Report window. Backup Storage

## ACTIONS ON BACKUP COPIES

Kaspersky Endpoint Security allows you to carry out the following actions on backup copies of objects:

- Restore selected backup copies from Quarantine.

To do this, in the Backup Storage window (see figure below), select the backup copy of the required object from the list and click the **Restore** button. Confirm the action. The object is restored to its original location with its original name. If there is an object with the same name in the original location (this situation is possible when restoring an object with a copy created prior to disinfection), a warning will pop up on screen. You can change the location of the object being restored or rename it.

We recommend that you scan the object for viruses immediately after restoring it. It is possible that the object will be disinfected using the updated databases without losing its integrity.

We do not recommend that you restore backup copies of objects unless absolutely necessary. This could lead to an infection on your computer.

- Delete backup copies of objects in Quarantine.

We recommend that you periodically view Quarantine and clear it. To delete an object, select it in the Quarantine window (see figure below) and click the **Delete** button. To clear Backup completely, click the **Clear all** button. You can also configure automatic deletion of the oldest objects in Backup Storage (see section "Configuring Quarantine and Backup Storage" on page [97](#)).

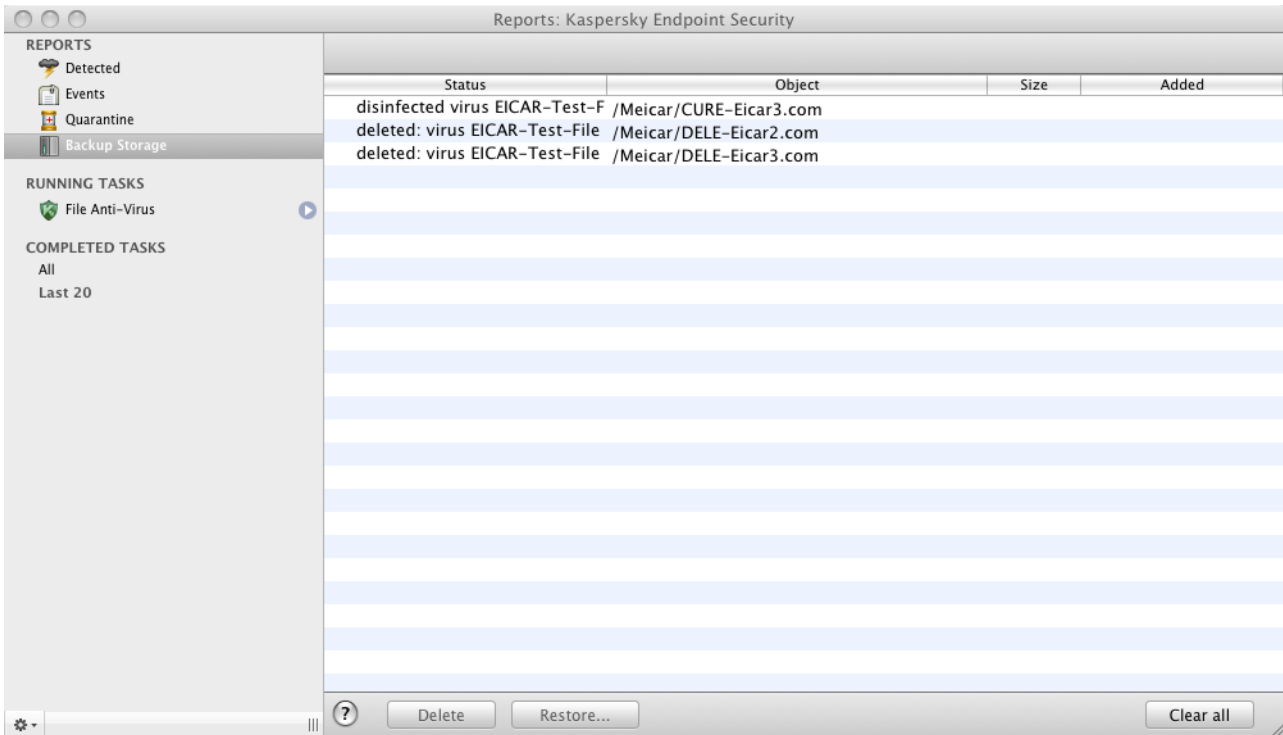



Figure 53. Report window. Backup Storage

## REPORTS

Kaspersky Endpoint Security can provide a detailed report on its overall operation with a list of all events that occurred while it was running. Besides that, a dedicated detailed report will be created for each application component: File Anti-Virus (see section "File protection statistics" on page [63](#)), virus scan tasks (see section "Virus scan statistics" on page [78](#)), and update tasks (see section "Update statistics" on page [88](#)).

➔ To open the report window,

open the main application window (on page 32) and click the  button.

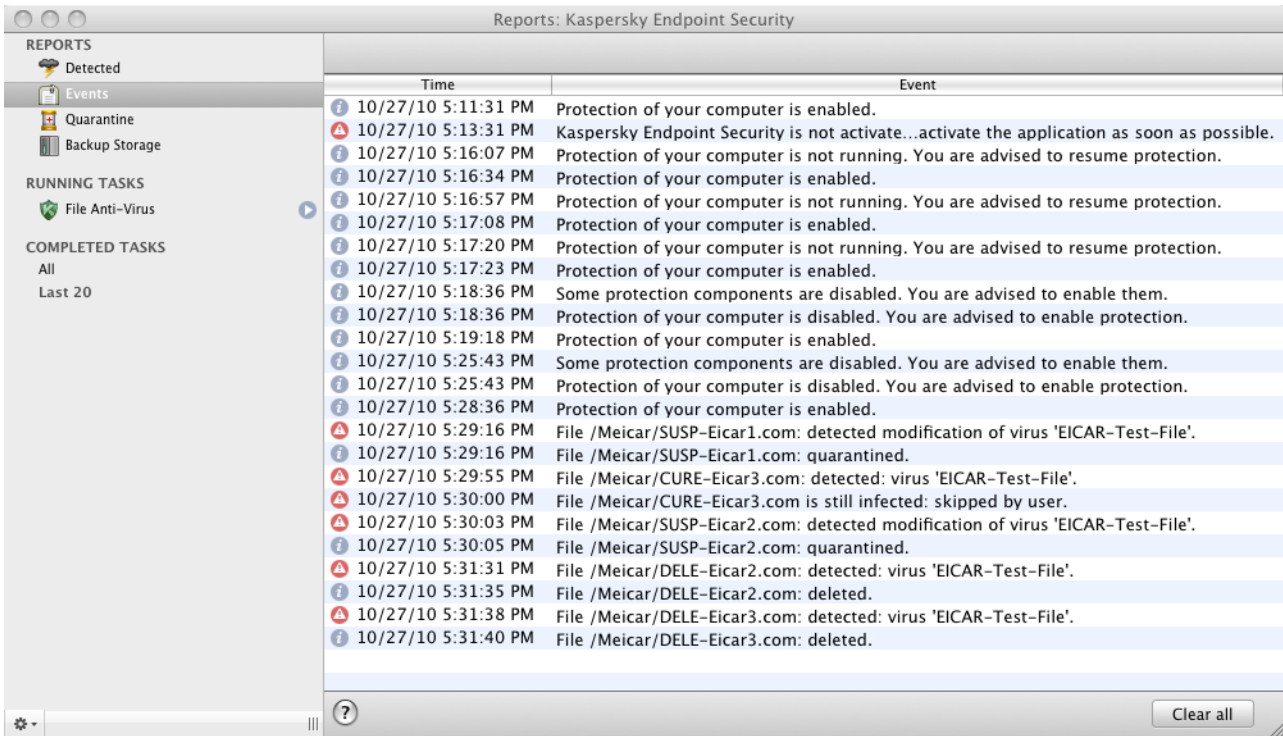



Figure 54. The Kaspersky Endpoint Security report window.

The report window contains the following sections:


- **Reports.** Statistical information about dangerous objects detected and objects placed in Quarantine and Backup Storage, and a list of events logged during operation. All statistics are divided into subsections:
  - **Detected.** This is a list of all dangerous and suspicious objects detected by File Anti-Virus and virus scan tasks. To disinfect the dangerous objects immediately, click the **Disinfect all** button. To remove the records on detected objects from the report, click the **Clear** button. Note that this will not remove the dangerous and suspicious objects from your computer.
  - **Events.** List of all events logged during Kaspersky Endpoint Security operation. To delete information from the list, click the **Clear all** button.
  - **Quarantine.** A list of objects moved to Quarantine (see section "Quarantine" on page 90).
  - **Backup Storage.** A list of objects placed in Backup Storage (on page 92).
- **Running tasks.** List of tasks being performed by Kaspersky Endpoint Security at the moment. If no task is active and File Anti-Virus is disabled, the list will be empty.
- **Completed tasks.** This is a list of completed tasks. You may view all completed tasks or the twenty most recent ones. To clear the list, click the  button in the bottom-left corner of the report window and select the **Delete all completed tasks** command.

From the report window you can manage the operation of File Anti-Virus, virus scans and update tasks: start and stop them. To do so, use the corresponding buttons in the component or task report window.

Kaspersky Endpoint Security allows saving the operation report in text format. This may be required if File Anti-Virus or another task returned a runtime error that cannot be deleted by the user. In such case, you can contact Kaspersky Lab

Technical Support Service (see section "Contacting Technical Support Service" on page [152](#)). In this case, you need to send a text report to Technical Support Service so that our specialists can study the problem in detail and fix it as quickly as possible.

➤ *To export a report on the operation of Kaspersky Endpoint Security to a text file:*

1. Select the required report or task in the report window.
2. In the bottom-left corner of the window click the  button, select the **Export** command, and in the window that opens specify the filename and the folder in which it will be saved.

## CONFIGURING REPORTS AND STORAGES

On the **Reports** tab of the application preferences window (see section "Application preferences window" on page [34](#)), you can adjust the settings for the creation and storage of reports as well as set the maximum storage time for objects in Quarantine and Backup Storage.

### CONFIGURING THE REPORT SETTINGS

➤ *To configure the settings for creating and saving reports, do the following:*

1. Open the application preferences window (on page [34](#)) and select the **Reports** tab (see figure below).
2. In the **Reports** section, adjust the following settings:

- Allow informational events to be logged.

As a rule, these events are not important for security. To log these events in the report, check **Log non-critical events** box.

- Save only important events in the report that occurred during the most recent task.

This saves disk space by reducing the size of the report. If the **Keep only recent events** box is checked, the information in the report will be updated every time you restart the task: in this case important information (such as records about malicious objects detected) will be saved, and non-critical information will be overwritten.

- Set the storage period for reports.



The default storage duration for reports is 30 days. Then the reports will be deleted. You can change the maximum storage period or remove this restriction.

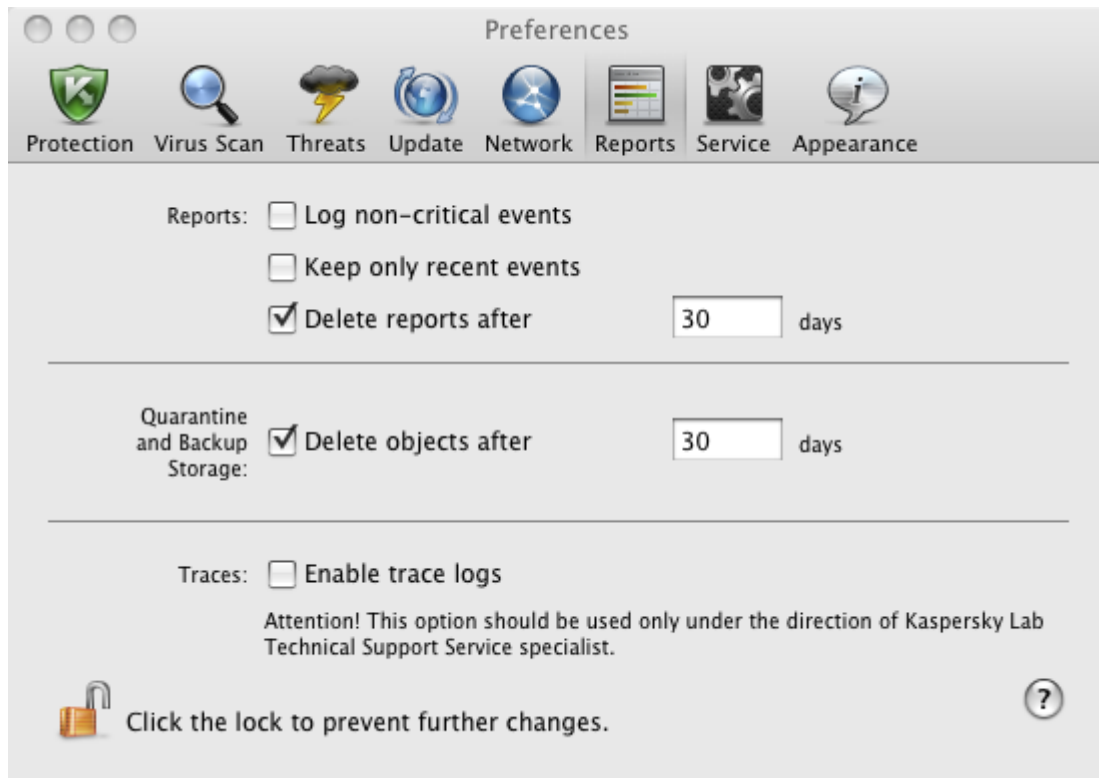


Figure 55. Application preferences window. Reports

## CONFIGURING QUARANTINE AND BACKUP STORAGE

By default, the storage term for objects in Quarantine and Backup is 30 days; when it expires, objects are deleted. You can change the maximum storage period for objects or remove this restriction at all.

➤ To configure the settings for storing objects, do the following:

1. Open the application preferences window (on page [34](#)) and select the **Reports** tab (see figure below).

- In the **Quarantine and Backup Storage** section, check the **Delete objects after** box and specify the period after which objects in storage are automatically deleted.

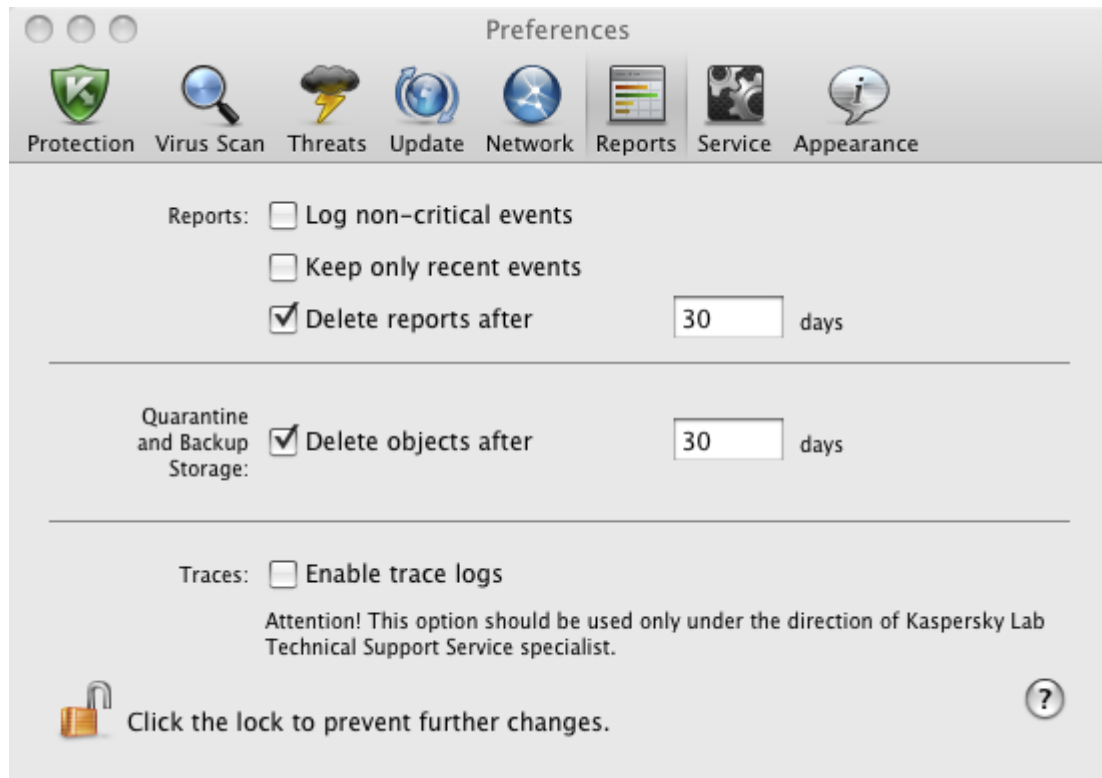


Figure 56. Application preferences window. Reports

# WORKING WITH THE APPLICATION FROM THE COMMAND LINE

You can manage Kaspersky Endpoint Security using the command line.

Command prompt syntax:

```
kav <command> [parameters]
```

The following commands can be used as a <command>:

- **help** – helps with command syntax and list of commands;
- **scan** – scans objects for malware;
- **update** – starts the application update;
- **rollback** – rolls back the most recent update of Kaspersky Endpoint Security (administrator rights are required for executing this command);
- **start** – starts a component or a task;
- **stop** – stops a component or a task (administrator rights are required for executing this command);
- **status** – displays the current status of a component or a task;
- **statistics** – displays the operation statistics for a component or a task on the screen;
- **export** – exports the settings of a component or a task;
- **import** – imports the settings of a component or a task (administrator rights are required for executing this command);
- **addkey** – activates the application using a key file (administrator rights are required for executing this command);
- **exit** – closes the application (administrator rights are required for executing this command).

Each command has its own range of settings.

**IN THIS SECTION:**

Viewing Help .....	<a href="#">100</a>
Virus scan .....	<a href="#">100</a>
Updating the application.....	<a href="#">102</a>
Rolling back the last update .....	<a href="#">103</a>
Starting / stopping a protection component or a task .....	<a href="#">103</a>
Statistics on a component's operation or a task .....	<a href="#">104</a>
Exporting protection settings .....	<a href="#">105</a>
Importing protection settings .....	<a href="#">105</a>
Activating the application.....	<a href="#">105</a>
Closing the application .....	<a href="#">106</a>
Return codes of the command line.....	<a href="#">106</a>

## VIEWING HELP

Use this command to view the application command line syntax:

```
kav [ -? | help ]
```

To get help on the syntax of a specific command, you can use one of the following commands:

```
kav <command> -?
```

```
kav help <command>
```

## VIRUS SCAN

Command line modified to run the virus scan of a specified area has the following general appearance:

```
kav scan [<object scanned>] [<action>] [<file types>] [<exclusions>] [<report settings>] [<advanced settings>]
```

To scan for viruses, you can also use the tasks created in the application by starting the one you need from the command line (see section "Starting / stopping a protection component or a task" on page [103](#)). The task will be run with the settings specified in the Kaspersky Endpoint Security interface.

### Settings description

**<object to scan>** – this parameter gives the list of objects that are scanned for malicious code. The parameter may include several space-separated values from the list provided:

**<files>** – list of paths to the files and / or folders to be scanned. You can enter an absolute or relative path to the file. Items on the list are separated by a space. Comments:

- if the name of an object or the path to it includes the space or special characters (such as \$, &, @), it should be put in single quotes, or the character being excluded should be separated with the backslash on its left side;
- if reference is made to a specific folder, all files and folders in this folder are scanned.

**-all** – full computer scan.

**-remdrives** – all removable drives.

**-fixdrives** – all local drives.

**-netdrives** – all network drives.

**-quarantine** – objects moved to Quarantine;

**-@:<filelist.lst>** – path to a file containing a list of objects and folders to be scanned. The file should be in text format and each scan object must be listed on a separate line. Only an absolute path to the file is allowed to be entered.

If no list of objects to be scanned is specified, Kaspersky Endpoint Security starts the **Virus Scan** task with the settings selected in the application interface.

**<action>** – this parameter determines what action will be taken with malicious objects detected during the scan. If this parameter has not been defined, the default action is the one with the value for **-i8**. The following values are possible:

**-i0** – take no action on the object; simply record information about it in the report;

**-i1** – treat infected objects and if disinfection is impossible, skip;

**-i2** – disinfect infected objects, if disinfection is impossible – delete; do not delete containers except the containers with an executable header (sfx archives);

**-i3** – treat infected objects and if disinfection fails, delete. Delete all compound objects completely if infected parts cannot be deleted;

**-i4** – delete infected objects. Delete all compound objects completely if the infected parts cannot be deleted;

**-i8** – prompt the user for action if an infected object is detected. This is the default setting;

**-i9** – prompt the user for action at the end of the scan.

**<file types>** – this parameter defines the file types that are subject to an anti-virus scan. By default, if this parameter is not defined, only infected files by contents are scanned. The following values are possible:

**-fe** – only scan infected files by extension;

**-fi** – only scan infected files by content (by default);

**-fa** – scan all files.

**-<exclusions>** – this parameter defines objects that are excluded from the scan. You can enumerate several parameters from the list below, separating them with the space:

**-e:a** – do not scan archives;

**-e:b** – do not scan email databases;

**-e:m** – do not scan emails in text format;

**-e:<mask>** – do not scan objects by mask (see section "Permissible file exclusion masks" on page [156](#));

**-e:<seconds>** – skip objects that are scanned for longer than the time specified in the <seconds> parameter;

**-es:<size>** – skip objects with size that exceeds the specified value (in MB).

**<report settings>** – this parameter determines the format of the report on scan results. You can use an absolute or relative path to the file for saving the report. If the setting is not defined, scan results are displayed on screen, and all events are shown.

**-r:<report\_file>** – only log important events in this file;

**-ra:<report\_file>** – log all events in this file.

**<advanced settings>** – settings that define the use of anti-virus scanning technologies and of the settings configuration file:

**-iSwift=<on|off>** – enable / disable the use of iSwift technology;

**-c:<configuration\_file\_name>** – defines the path to the configuration file that contains the application preferences for the virus scan task. You can enter an absolute or relative path to the file. If the parameter is not specified, the values set in the application interface are used together with the values already specified in the command line.

### **Example:**

Run the scan of the folders ~/Documents, /Applications, and the file named my test.exe:

```
kav scan ~/Documents /Applications 'my test.exe'
```

Scan the objects listed in the file object2scan.txt, using the configuration file scan\_setting.txt for the job. Use the scan\_settings.txt configuration file. When the scan is complete, create a report to log all events:

```
kav scan -@:objects2scan.txt -c:scan_settings.txt -ra:scan.log
```

A sample configuration file:

```
-netdrives -@:objects2scan.txt -ra:scan.log
```

## UPDATING THE APPLICATION

The syntax for updating the application modules and anti-virus databases from the command line is as follows:

```
kav update [<update_source>] [-app=<on|off>] [<report_settings>]
[<advanced_settings>]
```

### **Settings description**

**<update\_source>** – HTTP, FTP server, or network or local folder for downloading updates. If a path is not selected, the update source will be taken from the application update settings.

**-app=<on|off>** – enable / disable application modules update.

**<report settings>** – this parameter determines the format of the report on scan results. You can use an absolute or relative path to the file. If the setting is not defined, scan results are displayed on screen, and all events are shown. The following values are possible:

**-r:<report\_file>** – only log important events in this file;

**-ra:<report\_file>** – log all events in this file.

**<advanced settings>** – settings that define the use of the settings configuration file.

**-c:<configuration\_file\_name>** – defines the path to the configuration file that contains the application preferences for the update. You can enter an absolute or relative path to the file. If this parameter is not defined, the values set in the application interface are used.

**Example:**

Update the application databases from the default source, logging all events in the report:

```
kav update -ra:avbases_upd.txt
```

Update the Kaspersky Endpoint Security modules using the settings of updateapp.ini configuration file:

```
kav update -app=on -c:updateapp.ini
```

## ROLLING BACK THE LAST UPDATE

Command syntax:

```
kav rollback [<report_settings>]
```

Administrator rights are required for executing this command.

### Settings description

**<report settings>** – this parameter determines the format of the report on scan results. You can use an absolute and relative path to the file. If the setting is not defined, scan results are displayed on screen, and all events are shown.

**-r:<report\_file>** – only log important events in this file;

**-ra:<report\_file>** – log all events in this file. You can use an absolute or relative path to the file. If the setting is not defined, scan results are displayed on screen, and all events are shown.

**Example:**

```
kav rollback -ra:rollback.txt
```

## STARTING / STOPPING A PROTECTION COMPONENT OR A TASK

The start command syntax:

```
kav start <profile|task_name> [<report_settings>]
```

The stop command syntax:

```
kav stop <profile|task_name>
```

Administrator rights are required for executing this command.

## Settings description

**<report settings>** – this parameter determines the format of the report on scan results. You can use an absolute and relative path to the file. If the setting is not defined, scan results are displayed on screen, and all events are shown. The following values are possible:

**-r:<report\_file>** – only log important events in this file;

**-ra:<report\_file>** – log all events in this file. You can use an absolute or relative path to the file. If the setting is not defined, scan results are displayed on screen, and all events are shown.

The **<profile|task\_name>** setting can have one of the following values:

**file\_monitoring (fm)** – File Anti-Virus;

**scan\_my\_computer (full)** – full computer scan task;

**scan\_objects** – objects scan;

**scan\_quarantine** – quarantine scan;

**scan\_critical\_areas (quick)** – quick computer scan task;

**updater** – update task;

**rollback** – updates rollback task.

You can also specify the name of a user-created virus scan task as the value of this setting.

Components and tasks started from the command prompt are run with the settings configured in the application interface.

### **Example:**

To enable File Anti-Virus, type the following in the command prompt:

```
kav start fm
```

To stop the full scan task from the command prompt, enter the following:

```
kav stop scan_my_computer
```

## STATISTICS ON A COMPONENT'S OPERATION OR A TASK

The status command syntax:

```
kav status [<profile|task_name>]
```

The statistics command syntax:

```
kav statistics <profile|task_name>
```

## Settings description

The **<profile|task\_name>** setting can have one of the values specified for the start / stop command. (see section "Starting / stopping a protection component or a task" on page [103](#))



If the status command is run without specifying the value of the `<profile|task_name>` setting, the current statuses of all tasks and application components will be displayed on the screen. For the statistics command, the value of the `<profile|task_name>` setting is obligatory.

## EXPORTING PROTECTION SETTINGS

Command syntax:

```
kav export <profile|task_name> <file_name>
```

### Settings description

`<profile|task_name>` – one of the values listed for the start / stop command is specified (see section "Starting / stopping a protection component or a task" on page [103](#)).

`<file_name>` – path to the file to which the application settings are being exported. An absolute or a relative path may be specified.

### Example:

```
kav export fm fm_settings.txt - text format
```

## IMPORTING PROTECTION SETTINGS

Command syntax:

```
kav import <file_name>
```

Administrator rights are required for executing this command.

### Settings description

`<file_name>` – path to the file from which the application settings are being imported. An absolute or a relative path may be specified.

### Example:

```
kav import settings.dat
```

## ACTIVATING THE APPLICATION

Kaspersky Endpoint Security can be activated using the key file.

Command syntax:

```
kav addkey <file_name>
```

Administrator rights are required for executing this command.

### Settings description

`<file_name>` – key file for the application with the key extension.

**Example:**

```
kav addkey 1AA111A1.key
```

## CLOSING THE APPLICATION

Command syntax:

```
kav exit
```

Administrator rights are required for executing this command.

## RETURN CODES OF THE COMMAND LINE

The general codes may be returned by any command from the command line. The return codes include general codes as well as codes specific to a certain task.

General return codes:

- 0 – operation completed successfully;
- 1 – invalid setting value;
- 2 – unknown error;
- 3 – task completion error;
- 4 – task cancelled.

Virus scan task return codes:

- 101 – all dangerous objects processed;
- 102 – dangerous objects detected.

# ADMINISTERING THE APPLICATION VIA KASPERSKY ADMINISTRATION KIT

**Kaspersky Administration Kit** -is a system designed for centralized management of key administrative tasks in the domain of corporate network security systems. This system is based on the applications included in Kaspersky Open Space Security. Kaspersky Administration Kit supports all network configurations that use the TCP/IP protocol.

The application is a tool for corporate network administrators and anti-virus security officers.

Kaspersky Endpoint Security is one of the Kaspersky Lab products that can be administered via the interface of the application (on page [30](#)), command line (see section "Working with the application from the command line" on page [99](#)), or Kaspersky Administration Kit.

The Administration Console (see figure below) allows you to administer the application through Kaspersky Administration Kit. It provides a standard MMC-integrated interface and allows the administrator to perform the following functions:

- install Kaspersky Endpoint Security remotely on networked computers;
- configure Kaspersky Endpoint Security remotely on networked computers;
- update anti-virus databases and application modules as well as roll back the last update;
- run virus scan tasks on networked computers;
- activate the application remotely using a key file;
- view statistics and create reports on the operation of Kaspersky Endpoint Security on networked computers.



Figure 57. Kaspersky Administration Kit Administration Console

The appearance of the Kaspersky Administration Kit main window depends on the version of the operating system installed on the administrator's computer.

## Concepts and terms

When working via Kaspersky Administration Kit, Kaspersky Endpoint Security is administered using the policy settings, task settings, and application settings adjusted by the administrator.

Named action performed by the application is referred to as *task*. The following task types exist in accordance with the functions that a task performs:

- scanning for viruses;
- updating the application;
- rolling back the last update;
- installing a key file.

Each task is assigned a set of application parameters. The set of application parameters common for all task types makes up the *application settings*. Application settings specific for each individual task type make up the corresponding *task settings*. Application settings and task settings do not overlap.

The key feature of centralized administration is the grouping of remote computers on the network and managing them by creating and configuring group policies.

*Policy* is a collection of application settings for a group, as well as collections of restrictions on modifying those settings when configuring the application or tasks on an individual client computer. A policy includes settings for configuring all

the features of the application, except for the settings that have been customized for a specific task type. Schedule settings are an example.

Thus, policies include the following settings:

- settings common to all task types (application settings);
- settings common to all tasks of a single task type (major part of task settings).

This means that a policy for Kaspersky Endpoint Security with protection and virus scan tasks includes all application settings required for running both task types; however, it includes neither, for example, a run schedule for virus scan tasks nor the settings that define the scan scope.

## IN THIS SECTION:

Standard deployment scheme.....	<a href="#">109</a>
Installing software required for the remote administration of Kaspersky Endpoint Security .....	<a href="#">110</a>
Remote installation of Kaspersky Endpoint Security .....	<a href="#">115</a>
Managing Network Agent.....	<a href="#">118</a>
Administering the application .....	<a href="#">121</a>
Managing tasks .....	<a href="#">135</a>
Managing policies .....	<a href="#">147</a>

## STANDARD DEPLOYMENT SCHEME

◆ *Take the following steps to manage Kaspersky Endpoint Security via Kaspersky Administration Kit:*

1. Deploy Administration Server in the network;
2. Install Administration Console<sup>2</sup> and the Kaspersky Endpoint Security management plugin (see section "Installing the Kaspersky Endpoint Security management plugin" on page [110](#)) on the Kaspersky Administration Kit administrator's workstation.
3. Install Network Agent and Kaspersky Endpoint Security on Mac computers.
  - Network Agent can be installed locally (see section "Local installation of Network Agent" on page [111](#)) or remotely, using the SSH protocol (see section "Installation of Network Agent using the SSH protocol" on page [112](#)).
  - Also, you can install Kaspersky Endpoint Security locally (see section "Installing the application" on page [19](#)), remotely, using the SSH protocol (see section "Installing the application using the SSH protocol" on page [115](#)), or remotely via Kaspersky Administration Kit, using an existing installation package (see section "Installing the application via Kaspersky Administration Kit" on page [116](#)).

If Kaspersky Anti-Virus for Mac is already installed on the computer, you should remove it from them before installing Kaspersky Endpoint Security.

<sup>2</sup> For more information, see the Kaspersky Administration Kit Deployment Guide.

## INSTALLING SOFTWARE REQUIRED FOR THE REMOTE ADMINISTRATION OF KASPERSKY ENDPOINT SECURITY

To manage Kaspersky Endpoint Security remotely via Kaspersky Administration Kit, you should install the following applications:

- Kaspersky Endpoint Security management plugin – to the Kaspersky Administration Kit administrator's workspace where the Administration Console is installed.
- Network Agent – on Mac computers in a corporate network.

### IN THIS SECTION:

Installing the Kaspersky Endpoint Security management plugin .....	<a href="#">110</a>
Local installation of Network Agent .....	<a href="#">111</a>
Installation of Network Agent using the SSH protocol .....	<a href="#">112</a>
Updating Network Agent via Kaspersky Administration Kit .....	<a href="#">113</a>
Uninstallation of Network Agent .....	<a href="#">114</a>

## INSTALLING THE KASPERSKY ENDPOINT SECURITY MANAGEMENT PLUGIN

Before installing the Kaspersky Endpoint Security management plugin, you should close Administration Console on the Kaspersky Administration Kit administrator's workstation.

➔ To install the Kaspersky Endpoint Security management plugin on the administrator's workstation:

1. Open the contents of the Kaspersky Endpoint Security installation file. To do this, insert an installation CD into the disk drive. In the window with the contents of the installation package, open the **AdminKit Deployment** folder.

If you purchased Kaspersky Endpoint Security in an online store, then an application installation package in .zip format will be available to download on the Kaspersky Lab website. Extract it and run the .dmg file to view the package contents.

2. Open the **AdminKit Console Plugin** folder and the subfolder with the application version in the required localization language.
3. Open the executable file `klcfginst.exe`. Wait until the application is installed.

After the installation is complete, the Kaspersky Endpoint Security management plugin will be added to the list of plugins installed for managing applications<sup>3</sup>.

<sup>3</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

## LOCAL INSTALLATION OF NETWORK AGENT

➤ To perform the local installation of Network Agent on a user's computer:

1. Open the contents of the Network Agent distribution package. To do this, insert an installation CD into the disk drive.

If you purchased Kaspersky Endpoint Security in an online store, then an application installation package in .zip format will be available to download on the Kaspersky Lab website. Extract it and run the .dmg file to view the package contents.

2. Start the dedicated program for Network Agent installation. To do this, in the window with the distribution package contents, open the **Kaspersky Network Agent** installation package.

Confirm the installation launch in the request window. Then follow the Installation Assistant's instructions to install the application.

3. In the **Introduction** window, click **Continue**.
4. In the **Read Me** window, read the information about the application.

Make sure that the user's computer meets the minimum system requirements. To print the information, click the **Print** button. To save the information as a text file, click the **Save** button. To proceed with the installation, click **Continue**.

5. In the **License** window, read through the text of the Kaspersky Endpoint Security License Agreement concluded by you and Kaspersky Lab. The text of the agreement is available in several languages. To print the text of the agreement, click the **Print** button. To save the agreement as a text file, click the **Save** button.

If you agree with all the clauses in the agreement, click **Continue**. A window opens to request confirmation of your consent to the conditions of the licensing agreement. You can perform the following actions:

- proceed with the installation of Network Agent by clicking the **Agree** button;
- return to the license agreement text by clicking the **Read license** button;
- stop the installation by clicking the **Disagree** button.

6. In the **Preferences** window, in the **Server** field, specify the IP address or DNS name of the server on which Kaspersky Administration Kit is installed, then fill in the **Port** field to specify the number of the port for non-encrypted connection to the server, and then fill in the **SSL port** field to specify the number of the port for SSL connection to the server.

If you do not want to use the SSL for connection with the server, uncheck the **Use SSL** box. To proceed with the installation, click **Continue**.

7. In the **Installation Type** window, read the information about the drive on which the application will be installed.

To install the application using the recommended settings, click the **Install** button and enter the administrator's password to confirm your choice.

To select a different drive for installation, click the **Change location** button, select a different drive and then click **Continue**.

The drive used to install the application must be bootable. The minimum version, or higher, of the operating system specified in the system requirements (see section "Hardware and software requirements" on page 18) must be installed on the hard drive.

Wait until the Kaspersky Endpoint Security Installation Assistant installs the application components.

- In the **Summary** window, read the information about the installation process and click the **Close** button to exit the Installation Assistant.

## INSTALLATION OF NETWORK AGENT USING THE SSH PROTOCOL

Before installing Network Agent on a remote computer using the SSH protocol, make sure that the following requirements are met:

- Kaspersky Administration Kit Administration Server is deployed in the corporate network<sup>4</sup>.
- The Administration Console is installed on the Kaspersky Administration Kit administrator's workspace.
- The Network Agent installation package is created and stored in the shared folder of Administration Server<sup>5</sup>.

➤ *To perform the installation of Administration Agent on a remote computer using the SSH protocol:*

- Enable the **Remote enter** service on your Mac.
- On the administrator's workstation, run the SSH client and establish the connection to a remote Mac computer.
- Connect the shared folder of Administration Server as a network drive on the remote computer. To do this, enter the following commands in the SSH terminal of the client:

```
mkdir /Volumes/KLSHARE
mount_smbfs //<admin_login>:<password>@<AK_server_address>/KLSHARE
/Volumes/KLSHARE
```

Parameter description:

- <admin\_login>** – name of the administrator account on Administration Server;
- <password>** – password of the administrator on Administration Server;
- <AK\_server\_address>** – IP address of the server on which Kaspersky Administration Kit is installed.

- Run the installation script. To do this, enter the following commands in the SSH terminal of the client:

```
cd /Volumes/KLSHARE/Packages/<klnagent_package_folder>
```

where **<klnagent\_package\_folder>** is the folder in which the Network Agent installation package is stored.

```
sudo ./install.sh - r <server> [-s <action>] [-p <port number>] [-l <SSL port
number>]
```

Parameter description:

- <action>** – setting, which defines if encryption will be used when establishing the connection between Network Agent and Administration Server. If the value is "0", non-encrypted connection will be used. If the value is "1", the connection will be established via the SSL protocol (default value);
- <server>** – IP address or DNS name of the server on which Kaspersky Administration Kit is installed;
- <port number>** – number of the port via which the non-encrypted connection to Administration Server will be established. The port 14000 is used by default;
- <SSL port number>** – number of the port via which the encrypted connection to Administration Server will be established using the SSL protocol. By default, port 13000 will be used.

<sup>4</sup> For more information, see the Kaspersky Administration Kit Deployment Guide.

<sup>5</sup> For more information, see the Kaspersky Administration Kit Reference Guide.



Administrator rights are required for executing this command.

5. Disconnect the network drive on the remote computer. To do this, enter the following command in the SSH terminal of the client:

```
umount /Volumes/KLSHARE
```

6. Check if Network Agent is operable on the remote computer. To do this, enter the following commands in the SSH terminal of the client:

```
cd /Library/Application\ Support/Kaspersky\ Lab/klnagent/Binaries/  
sudo ./klnagchk
```

If the check is successful, Network Agent functions properly.

## UPDATING NETWORK AGENT VIA KASPERSKY ADMINISTRATION KIT

Before launching the update of Network Agent installed on a remote computer, make sure that the following requirements are met:

- Kaspersky Administration Kit Administration Server is deployed in the corporate network<sup>6</sup>.
- The Administration Console is installed on the Kaspersky Administration Kit administrator's workspace.
- Network Agent is installed on the Mac.
- The installation package for updating Network Agent is created and stored in the shared folder of Administration Server<sup>7</sup>.

In the installation package properties window, on the **Connection** tab, you should specify the IP address or DNS name of Administration Server in the **Server address** field, the number of the port for non-encrypted connection to the server - in the **Port number** field, and the number of the port for connection to the server using SSL - in the **SSL port number** field. If you do not want to use SSL for connection to the server, uncheck the **Use SSL connection** box.

- The Mac computer is added to the **Managed computers** group of Administration Server (optional)<sup>8</sup>.

You can update Network Agent installed on a remote computer using Kaspersky Administration Kit, by creating and launching the remote application installation task.

➤ *To create the task for remote installation of the application on a remote computer using Kaspersky Administration Kit:*

1. Start Kaspersky Administration Kit Administration Console.
2. Expand the **Administration Server** node and select the **Tasks for specific computers** folder.
3. In the taskbar, click the **Create Task** link to run the Task Creation Wizard. Follow its instructions to create the remote installation task.
4. In the **Task name** window, in the **Name** field, enter the name of the task and click the **Next** button.
5. In the **Task type** window, select the **Application deployment** task for Kaspersky Administration Kit and click the **Next** button.
6. In the **Installation package** window, select an installation package for Network Agent and click the **Next** button.

<sup>6</sup> For more information, see the Kaspersky Administration Kit Deployment Guide.

<sup>7</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

<sup>8</sup> For more information, see the Kaspersky Administration Kit Administrator Guide.

7. In the **Installation method** window, select **Push install** as the remote installation method and click the **Next** button.
8. In the **Settings** window, click the **Next** button.
9. In the **Restart** window, select the **Do not restart the computer** option and click the **Next** button.

You do not have to restart the computer after Network Agent is updated.

10. In the **Computer relocation** window, select the group, into which Kaspersky Administration Kit should relocate the user's computer after Network Agent is updated. If the computer does not need to be relocated into another administration group, select **Do not move computers automatically**. Click the **Next** button.
11. In the **Select target computers** window, select the option for choosing the most appropriate computers for the application installation. You can install the application:
  - based on data obtained using Windows Networking;
  - based on addresses of computers entered manually.

Click the **Next** button.
12. In the **Client computers** window, specify the computers for which the remote application installation task should be created according to the option selected at the previous step. Click the **Next** button.
13. In the **Account** window, click the **Next** button.
14. In the **Task scheduling settings** window, select a task run mode: manually or by a schedule. To do this, select the value that will define the frequency of the task run from the dropdown list, and specify the time of the task run. Click the **Next** button.
15. The last window of the wizard will inform you that you have successfully created a task. Click the **Finish** button to close the Assistant.

The task that you have created will appear in the console tree, in the **Tasks for specific computers** folder.

## UNINSTALLATION OF NETWORK AGENT

➔ *To uninstall Network Agent from your computer:*

1. Open the content of the Network Agent installation package. To do this, insert an installation CD into the disk drive.

If you purchased Kaspersky Endpoint Security in an online store, then an application installation package in .zip format will be available to download on the Kaspersky Lab website. Extract it and run the .dmg file to view the package contents.

2. Start the Network Agent Uninstallation Assistant. To do this, select **Kaspersky Network Agent Uninstaller** in the window with the distribution package contents.
 

Follow the Uninstaller's instructions.
3. In the **Introduction** window, click **Continue**.
4. In the **Information** window, read the important information. To start the uninstallation procedure, click the **Delete** button and enter the administrator's password to confirm. Wait until the application removal is complete.
5. In the **Completion** window, read the information about the uninstallation process termination and click the **Finish** button to exit the Uninstall Assistant.

# REMOTE INSTALLATION OF KASPERSKY ENDPOINT SECURITY

You can use the following methods to install Kaspersky Endpoint Security onto a user's computer:

- locally (see section "Installing the application" on page [19](#));
- remotely, using the SSH protocol (see section "Installing the application using the SSH protocol" on page [115](#));
- remotely via Kaspersky Administration Kit (see section "Installing the application via Kaspersky Administration Kit" on page [116](#)).

This section also describes the application uninstall procedure via Kaspersky Administration Kit (see section "Removing the application via Kaspersky Administration Kit" on page [117](#)).

## IN THIS SECTION:

Installing the application using the SSH protocol .....	<a href="#">115</a>
Installing the application via Kaspersky Administration Kit.....	<a href="#">116</a>
Removing the application via Kaspersky Administration Kit.....	<a href="#">117</a>

## INSTALLING THE APPLICATION USING THE SSH PROTOCOL

Before installing Kaspersky Endpoint Security on a remote computer, make sure that the following conditions are met:

- Kaspersky Administration Kit Administration Server is deployed in the corporate network<sup>9</sup>.
- The Administration Console is installed on the Kaspersky Administration Kit administrator's workspace.
- An installation package for Kaspersky Endpoint Security is created and stored in the shared folder of Administration Server<sup>10</sup>.
- A key file for Kaspersky Endpoint Security is stored in the shared folder of Administration Server (optional).

➔ *To install Kaspersky Endpoint Security on a remote computer using the SSH protocol:*

1. Enable the **Remote enter** service on your Mac.
2. On the administrator's workstation, run the SSH client and establish the connection to a remote Mac computer.
3. Connect the shared folder of Administration Server as a network drive on the remote computer. To do this, enter the following commands in the SSH terminal of the client:

```
mkdir /Volumes/KLSHARE
mount_smbfs //<admin_login>:<password>@<AK_server_address>/KLSHARE
/Volumes/KLSHARE
```

Parameter description:

- **<admin\_login>** – name of the administrator account on Administration Server;
- **<password>** – password of the administrator on Administration Server;

<sup>9</sup> For more information, see the Kaspersky Administration Kit Deployment Guide.

<sup>10</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

- **<AK\_server\_address>** – IP address of the server on which Kaspersky Administration Kit is installed.
4. Run the installation script. To do this, enter the following commands in the SSH terminal of the client:

```
cd /Volumes/KLSHARE/Packages/<kes_package_folder>
sudo ./install.sh
```

where **<kes\_package\_folder>** is the folder in which the installation package for Kaspersky Endpoint Security is stored.

Administrator rights are required for executing this command.

5. Disconnect the network drive on the remote computer. To do this, enter the following command in the SSH terminal of the client:

```
umount /Volumes/KLSHARE
```

## INSTALLING THE APPLICATION VIA KASPERSKY ADMINISTRATION KIT

Before installing Kaspersky Endpoint Security on a remote computer, make sure that the following conditions are met:

- Kaspersky Administration Kit Administration Server is deployed in the corporate network<sup>11</sup>.
- The Administration Console is installed on the Kaspersky Administration Kit administrator's workspace.
- Network Agent is installed on the Mac.
- An installation package for Kaspersky Endpoint Security is created and stored in the shared folder of Administration Server<sup>12</sup>.
- A key file for Kaspersky Endpoint Security is stored in the shared folder of Administration Server (optional).
- The Mac computer is added to the **Managed computers** group of Administration Server (optional)<sup>13</sup>.

Installation of Kaspersky Endpoint Security on a remote computer via Kaspersky Administration Kit involves creating and further running of the remote application installation task.

➔ *To create a task for remote installation of Kaspersky Endpoint Security on a remote computer via Kaspersky Administration Kit:*

1. Start Kaspersky Administration Kit Administration Console.
2. Expand the **Administration Server** node and select the **Tasks for specific computers** folder.
3. In the taskbar, click the **Create Task** link to run the Task Creation Wizard. Follow its instructions to create a task for the remote installation of Kaspersky Endpoint Security.
4. In the **Task name** window, in the **Name** field, enter the name of the task and click the **Next** button.
5. In the **Task type** window, select the **Application deployment** task for Kaspersky Administration Kit and click the **Next** button.
6. In the **Installation package** window, select an installation package for Kaspersky Endpoint Security and click the **Next** button.

<sup>11</sup> For more information, see the Kaspersky Administration Kit Deployment Guide.

<sup>12</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

<sup>13</sup> For more information, see the Kaspersky Administration Kit Administrator Guide.

7. In the **Installation method** window, select **Push install** as the remote installation method and click the **Next** button.
8. In the **Settings** window, configure the remote installation of the application and click the **Next** button.
9. In the **Advanced** window, specify an additional installation package for joint installation of the applications, if required. Click the **Next** button.
10. In the **Restart** window, select the **Do not restart the computer** option and click the **Next** button.

You don't need to restart the computer after installing the application.

11. In the **Select target computers** window, select the option for choosing the most appropriate computers for the application installation. You can install the application:
  - based on data obtained using Windows Networking;
  - based on addresses of computers entered manually.

Click the **Next** button.
12. In the **Client computers** window, specify the computers for which the remote application installation task should be created according to the option selected at the previous step. Click the **Next** button.
13. In the **Account** window, click the **Next** button.
14. In the **Task scheduling settings** window, select a task run mode: manually or by a schedule. To do this, select the value that will define the frequency of the task run from the dropdown list, and specify the time of the task run. Click the **Next** button.
15. The last window of the wizard will inform you that you have successfully created a task. Click the **Finish** button to close the Assistant.

The task that you have created will appear in the console tree, in the **Tasks for specific computers** folder.

## REMOVING THE APPLICATION VIA KASPERSKY ADMINISTRATION KIT

Removing Kaspersky Endpoint Security from a remote computer may lead to a risk of infection.

Before removing Kaspersky Endpoint Security from a remote computer, make sure the following conditions are met:

- Kaspersky Administration Kit Administration Server is deployed in the corporate network<sup>14</sup>.
- The Administration Console is installed on the Kaspersky Administration Kit administrator's workspace.
- Network Agent and Kaspersky Endpoint Security are installed on the Mac computer.

You can remove Kaspersky Endpoint Security from a client computer via Kaspersky Administration Kit by creating and further running a task for remote application uninstallation.

➤ *To create a task for remote uninstallation of Kaspersky Endpoint Security from a client computer via Kaspersky Administration Kit:*

1. Start Kaspersky Administration Kit Administration Console.
2. Expand the **Administration Server** node and select the **Tasks for specific computers** folder.

<sup>14</sup> For more information, see the Kaspersky Administration Kit Deployment Guide.

3. In the taskbar, click the **Create Task** link to run the Task Creation Wizard. Follow its instructions to create a task for the remote installation of Kaspersky Endpoint Security.
4. In the **Task name** window, in the **Name** field, enter the name of the task and click the **Next** button.
5. In the **Task type** window, select Kaspersky Administration Kit and **Product deinstallation task** from the list in the **Advanced** folder. Click the **Next** button.
6. In the **Settings** window, select **Kaspersky Endpoint Security 8 for Mac** from the dropdown list and click the **Next** button.
7. In the **Remote uninstall method** window, select **Forced uninstall** as the application uninstallation method and click the **Next** button.
8. In the **Settings** window, adjust the settings for the remote uninstallation of the application and click the **Next** button.
9. In the **Restart** window, select the **Do not restart the computer** option and click the **Next** button.

You don't need to restart computer after removing Kaspersky Endpoint Security.

10. In the **Client computers** window, specify the computers for which a task of remote uninstallation of the application will be created. Click the **Next** button.
11. In the **Account** window, click the **Next** button.
12. In the **Task scheduling settings** window, select a task run mode: manually or by a schedule. To do this, select the value that will define the frequency of the task run from the dropdown list, and specify the time of the task run. Click the **Next** button.
13. The last window of the wizard will inform you that you have successfully created a task. Click the **Finish** button to close the Assistant.

The task that you have created will appear in the console tree, in the **Tasks for specific computers** folder.

## MANAGING NETWORK AGENT

Network Agent can be managed using the command line on the user's computer.

Kaspersky Administration Kit allows you to connect a client computer to Administration Server manually using the `klmover` utility tool and to check the connection between a client computer and Administration Server using the `klmagchk.exe` utility tool.

You can also pause the operation of Network Agent and then resume it.

### IN THIS SECTION:

Connecting a client computer to Administration Server manually. Utility tool <code>klmover</code> .....	<a href="#">119</a>
Checking the connection between a client computer and Administration Server manually. Utility tool <code>klmagchk</code> .....	<a href="#">120</a>
Starting / stopping Network Agent on a client computer.....	<a href="#">121</a>

## CONNECTING A CLIENT COMPUTER TO ADMINISTRATION SERVER MANUALLY. UTILITY TOOL KLMOVER

➔ To connect a client computer to Administration Server,

activate the command line of the client computer to run the klmover utility tool included in the Administration Agent distribution package.

When Network Agent is installed, this utility tool is stored in a folder named /Library/Application Support/Kaspersky Lab/klmover/Binaries. Depending on the current settings, it performs the following actions when run from the command line:

- connects Network Agent to Administration Server with the specified settings;
- logs the results of the operation into the specified file or displays them on the screen.

Before running the utility tool, open the folder named /Library/Application Support/Kaspersky Lab/klmover/Binaries.

Utility command line syntax:

```
sudo ./klmover [-logfile <file name>] [-address <server address>] [-pn <port number>]
[-ps <SSL port number>] [-nossll] [-cert <path to certificate file>] [-silent] [-dupfix]
```

The administrator rights are required to run the utility.

### Parameter description:

**-logfile <file name>** – log the results of the utility run into the specified file; if the setting is not selected, results and error messages are displayed on the screen.

**-address <server address>** – address of Administration Server for connection; you can specify the IP address or DNS name of the server as this address.

**-pn <port number>** – number of the port via which non-encrypted connection to Administration Server will be established; the port 14000 is used by default.

**-ps <SSL port number>** – number of the port via which encrypted connection to Administration Server will be established using the SSL protocol. The port 13000 is used by default.

**-nossll** – use non-encrypted connection to Administration Server; if no key is specified, connection between Network Agent and Administration Server will be established using the encrypted SSL protocol.

**-cert <path to certificate file>** – use the specified certificate file for authentication on a new Administration Server. If this setting is not selected, Network Agent will receive a certificate at the first connection to Administration Server.

**-silent** – run the utility in silent mode.

**-dupfix** – this setting is used if Network Agent has been installed using a method that differs from the usual one (with the distribution package) - for example, by recovering it from an ISO disk image.

You are advised to run the utility, specifying the values of all of the settings.

### Example:

```
sudo ./klmover -logfile klmover.log -address 192.0.2.12 -ps 13001
```

## CHECKING THE CONNECTION BETWEEN A CLIENT COMPUTER AND ADMINISTRATION SERVER MANUALLY. UTILITY TOOL KLNAGCHK

➔ *To check the connection between a client computer and Administration Server,*

activate the command line of the client computer to run the klnagchk utility tool included in the Network Agent distribution package.

When Network Agent is installed, this utility tool is stored in a folder named /Library/Application Support/Kaspersky Lab/klnagent/Binaries. Depending on the current settings, it performs the following actions when run from the command line:

- displays the values of the settings, which are selected for the connection established between Network Agent installed on the client computer and Administration Server, or log them into the specified file;
- logs the operational statistics of Network Agent (since the last startup of the component) and the results of the utility run into the specified file, or displays the information on the screen;
- makes an attempt to establish connection between Network Agent and Administration Server;
- if no connection can be established, sends an ICMP packet to check the status of the computer on which Administration Server is installed.

Before running the utility tool, open the folder named /Library/Application Support/Kaspersky Lab/klnagent/Binaries.

Utility command line syntax:

```
sudo ./klnagchk [-logfile <file name>] [-sp] [-savecert <path to certificate file>]
[-restart]
```

The administrator rights are required to run the utility.

### Settings description

**-logfile <file name>** – log the values of the settings of connection between Network Agent and Administration Server and the results of the utility run into the specified file; if this setting is not selected, the settings of the connection to the server, results and error messages are displayed on the screen.

**-sp** – display the password, which is used to authenticate the user on the server, on the screen, or record it into a log file; this setting is used if the connection to Administration Server involves a proxy server. By default, this setting is not used.

**-savecert <file name>** – save the certificate for authentication on Administration Server in the specified file.

**-restart** – restart Network Agent after the utility stops running.

### Example:

```
sudo ./klnagchk -logfile klnagchk.log -sp
```



## STARTING / STOPPING NETWORK AGENT ON A CLIENT COMPUTER

You can stop and start Network Agent again on the user's computer by using the command line.

➔ *To stop Network Agent,*

activate the command line of the client computer to run the launchctl utility tool with the unload command.

Command syntax

```
launchctl unload /Library/LaunchDaemons/com.kaspersky.klnagent.plist
```

➔ *To start Network Agent,*

activate the command line of the client computer to run the launchctl utility tool with the load command.

Command syntax

```
launchctl load /Library/LaunchDaemons/com.kaspersky.klnagent.plist
```

Administrator rights are required to stop and start Network Agent.

## ADMINISTERING THE APPLICATION

Kaspersky Administration Kit provides you with the option of remotely running and stopping Kaspersky Endpoint Security on an individual client computer, as well as adjusting the general application settings: enabling and disabling the protection of the computer's file system, configuring the display of the Kaspersky Endpoint Security icon, configuring the settings for reports and storages.

➔ *To proceed to the application settings:*

1. Start Kaspersky Administration Kit Administration Console .
2. Expand the **Administration Server** node.
3. In the **Managed computers** folder, select the folder with the name of the group that contains the client computer, and then select the **Client computers** subfolder.
4. In the results panel on the right, select the computer on which Kaspersky Endpoint Security is installed.
5. Right-click the area to open the context menu, select the **Properties** item. The properties window on the client computer will open.
6. On the **Applications** tab (see figure below), in the list of all Kaspersky Lab applications installed on the computer, select **Kaspersky Endpoint Security 8 for Mac**.

The following control buttons are located under the list of applications:

- **Events**. Clicking this button opens the **Events** window which displays the list of events that have occurred on the client computer and logged on the Administration Server;
- **Statistics**. Clicking this button opens the **Statistics** window which displays the actual statistical data on the application's operation;
- **Properties**. Clicking this button opens the application settings window (see section "Modifying the application settings" on page [123](#)).

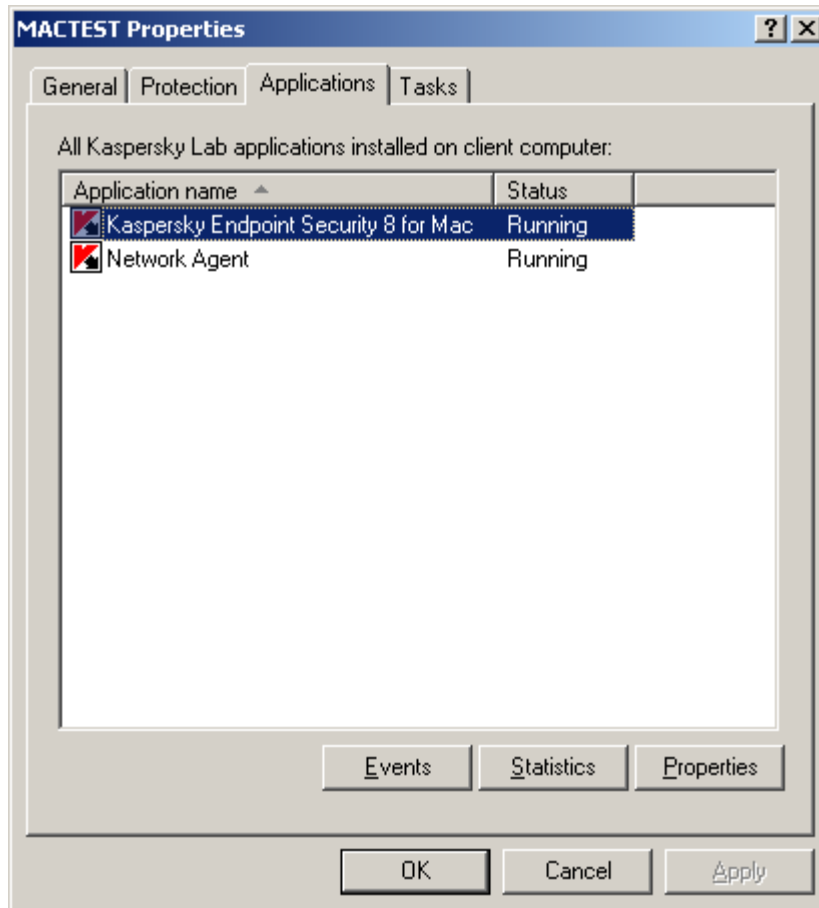


Figure 58. The properties window of the client computer. The Applications tab

## IN THIS SECTION:

Starting and stopping the application .....	<a href="#">122</a>
Modifying the application settings .....	<a href="#">123</a>

## STARTING AND STOPPING THE APPLICATION

You can run and stop Kaspersky Endpoint Security on a remote client computer using the **General** tab of the application settings window.

The top part of the window displays the name of the application, information about the current version, installation date, date of last update, current status (whether it is run or stopped on the local computer), and information about the status of the application databases.

◆ To stop or run Kaspersky Endpoint Security installed on a remote computer:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.

- In the application properties window that opens (see figure below), select the **General** tab and click the **Stop** button to stop the application or the **Start** button to run it. Wait until Kaspersky Administration Kit performs the action on the remote client computer.

After Kaspersky Endpoint Security is stopped on the remote computer, it keeps functioning in unprotected mode, which may lead to a risk of infection.

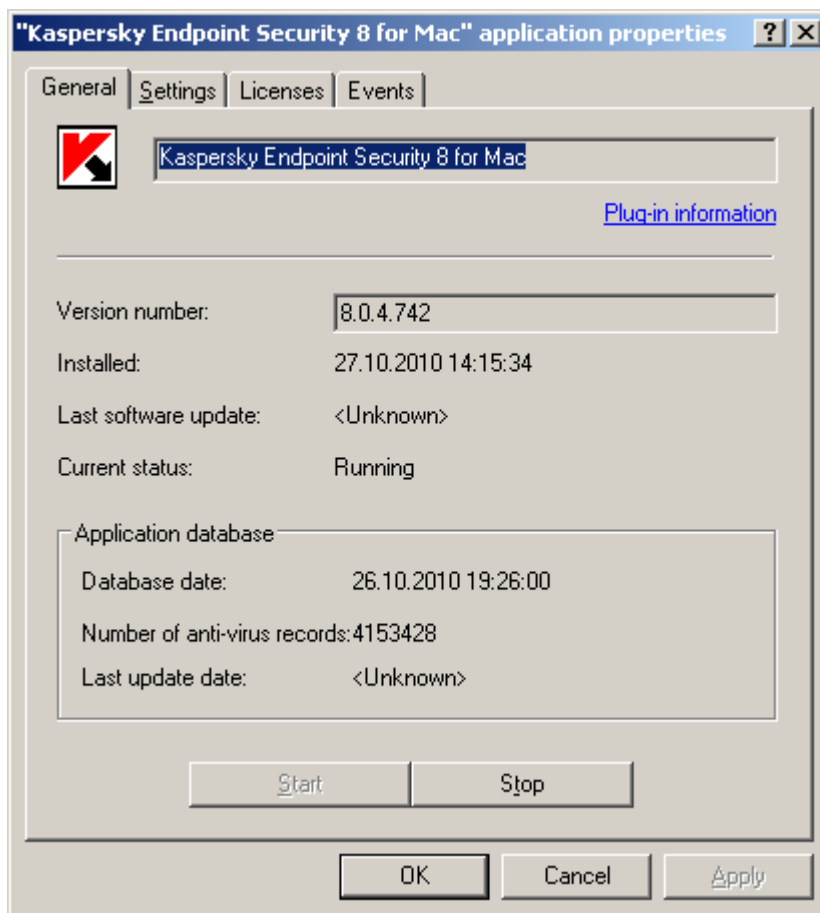


Figure 59. Application settings window. The General tab

## MODIFYING THE APPLICATION SETTINGS

You can use the **Settings** tab of the application settings window to view and edit the application settings on the remote client computer (see figure below).

The **Licenses** and **Events** tabs are standard in Kaspersky Administration Kit<sup>15</sup>.

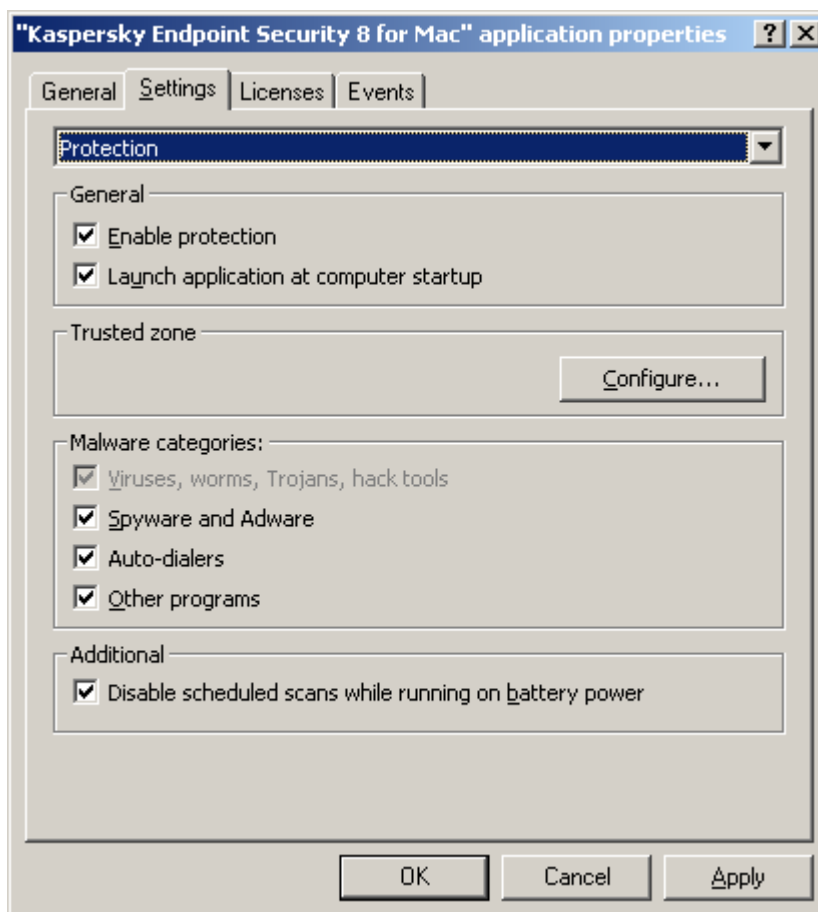


Figure 60. Application settings window. The Settings tab. Protection

If a policy, which prohibits redefining specific settings, has been created for the application, those settings cannot be edited when adjusting the application settings.

## ENABLING AND DISABLING FILE PROTECTION

Kaspersky Lab strongly recommends that you do not disable real-time protection ensured by File Anti-Virus on a remote computer, because this may lead to infection and to loss of data.

◆ To disable File Anti-Virus on a remote computer:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select **Protection** from the dropdown list in the top part of the window.

<sup>15</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

5. In the **General** section (see figure below), uncheck the **Enable protection** box and click the **Apply** button.

➔ To enable File Anti-Virus on a remote computer:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Protection** item from the dropdown list in the top part of the window.
5. In the **General** section (see figure below), check the **Enable protection** box and click the **Apply** button.

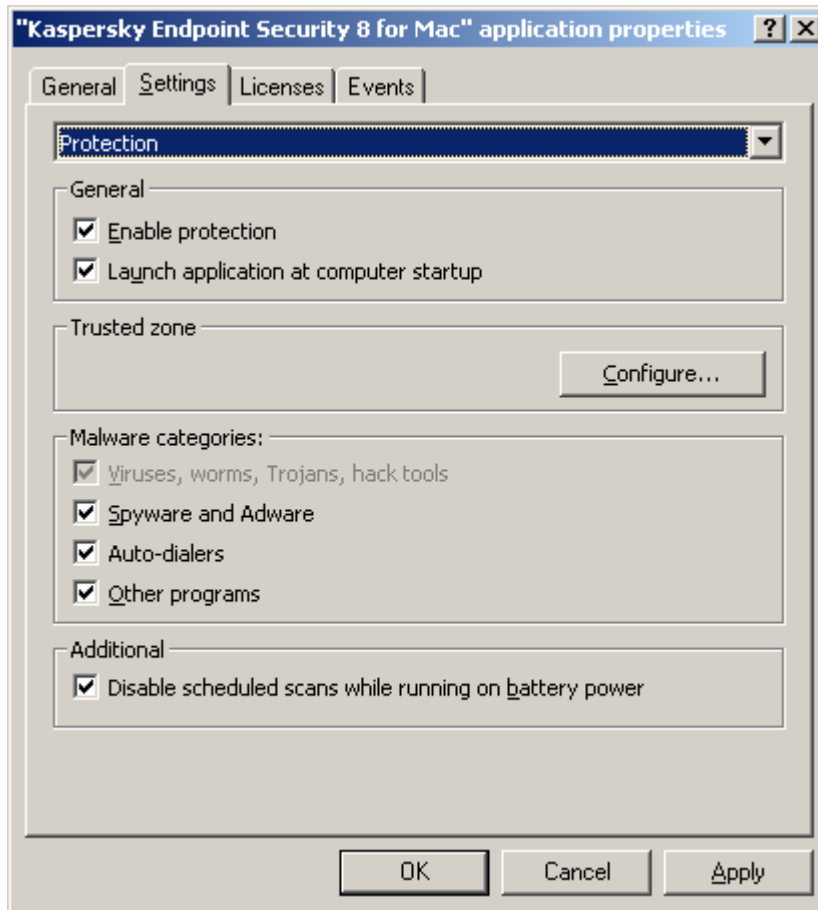


Figure 61. Application settings window. The Settings tab. Protection

**ALSO SEE:**

File Anti-Virus..... [53](#)

**CONFIGURING THE AUTOMATIC STARTUP OF KASPERSKY ENDPOINT SECURITY**

By default, Kaspersky Endpoint Security is started automatically on a remote computer when it is turned on, or after the operating system is restarted.

➤ *To disable the automatic start-up of Kaspersky Endpoint Security installed on a remote computer:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Protection** item from the dropdown list in the top part of the window.
5. In the **General** section (see figure above), uncheck the **Launch application at computer startup** box and click the **Apply** button.

Disabling the automatic launch mode of Kaspersky Endpoint Security results in your computer operating in unprotected mode next time it is turned on, which increases its risk of becoming infected.

## CREATING A TRUSTED ZONE

➤ *To create a new exclusion rule or view and modify an existing rule for Kaspersky Endpoint Security installed on a remote computer:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Protection** item from the dropdown list in the top part of the window.
5. In the **Trusted zone** section (see figure above), click the **Configure** button. The **Trusted zone** window (see figure below) opens, displaying a list of objects that Kaspersky Endpoint Security will not control when running.

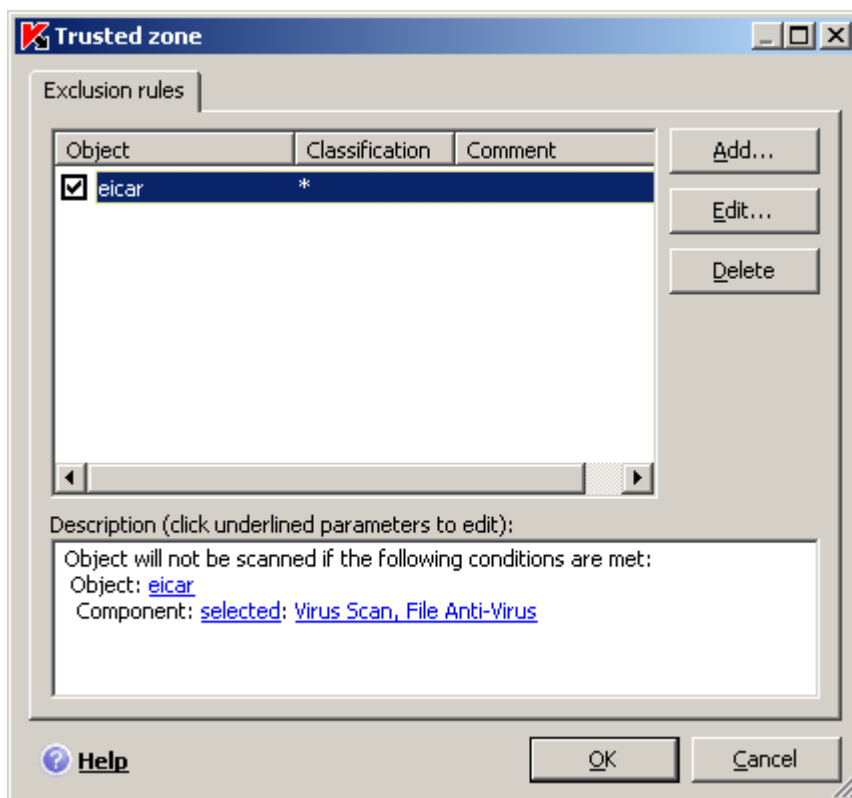


Figure 62. The Trusted zone window

You can perform the following actions:

- Create new exclusion rule.

Click the **Add** button and in the **Exclusion rule** window that opens (see figure below) set the conditions.

- Modify existing exclusion rule.

Select the exclusion rule in the list and click the **Edit** button. In the **Exclusion rule** window that opens modify the conditions.

- Temporarily disable exclusion rule.

Select the exclusion rule in the list and uncheck the box next to it. The exclusion rule will be disabled until the box is checked again.

- Delete exclusion rule.

Select an exclusion rule from the list and click the **Delete** button.

### Creating an exclusion rule

In the **Exclusion rule** window that opens, specify the conditions for the exclusion rule in accordance with the following settings:

- **Object.** Check the **Object** box in the **Settings** field if a file, folder, or file mask has been specified as an exclusion object. To specify the name / name mask of an object, click the **Object:** link in the **Description** field to open the **Object name** window, and enter the name of a file, folder, or file mask.
- **Classification.** Check the **Classification** box in the **Settings** field to exclude objects from the scan based on the type of threat as listed in the Virus Encyclopedia. To specify the name / name mask of a threat, click the

**Classification:** link to open the **Classification** window, and enter the name or mask of a threat as listed in the Virus Encyclopedia.

- **Feature.** To specify the features of Kaspersky Endpoint Security that should be covered by the rule being created, click the **Feature:** link in the **Description** field to open the **Excluding features / tasks**, and check the boxes next to the names of the features: **File Anti-Virus** or **Virus Scan**.

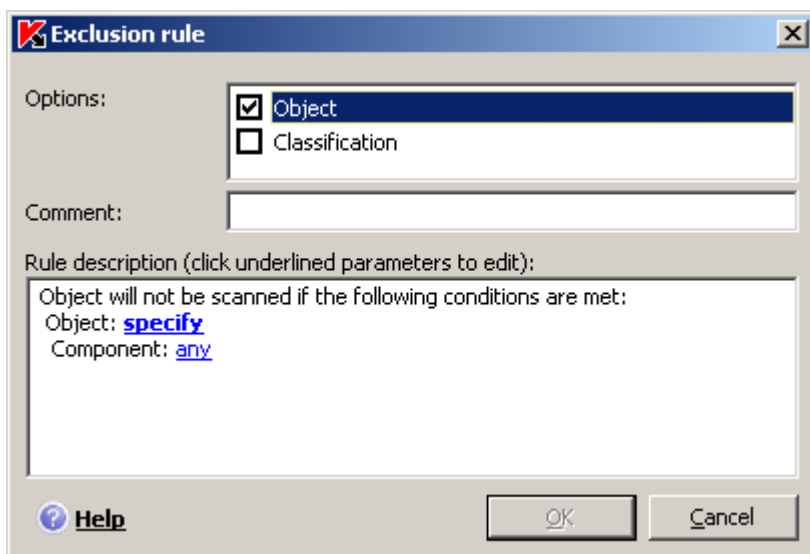


Figure 63. The Exclusion rule window

**ALSO SEE:**

Creating a trusted zone ..... [51](#)

**SELECTING MALICIOUS PROGRAMS TO BE MONITORED**

➤ To select the groups of malware against which Kaspersky Endpoint Security will protect a remote computer:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Protection** item from the dropdown list in the top part of the window.
5. In the **Malware categories** section (see figure below), check the boxes next to the names of the malware groups against which Kaspersky Endpoint Security should protect your computer.



Kaspersky Endpoint Security protects your computer against viruses, worms, Trojans, and hacking tools. Therefore, it is not possible to uncheck the box for this group. Kaspersky Lab does not recommend disabling monitoring of spyware, adware and auto-dialers. If Kaspersky Endpoint Security classifies a program, which you do not consider to be dangerous, as unwanted, you can configure an exclusion rule for it (see section "Creating a trusted zone" on page [126](#)).

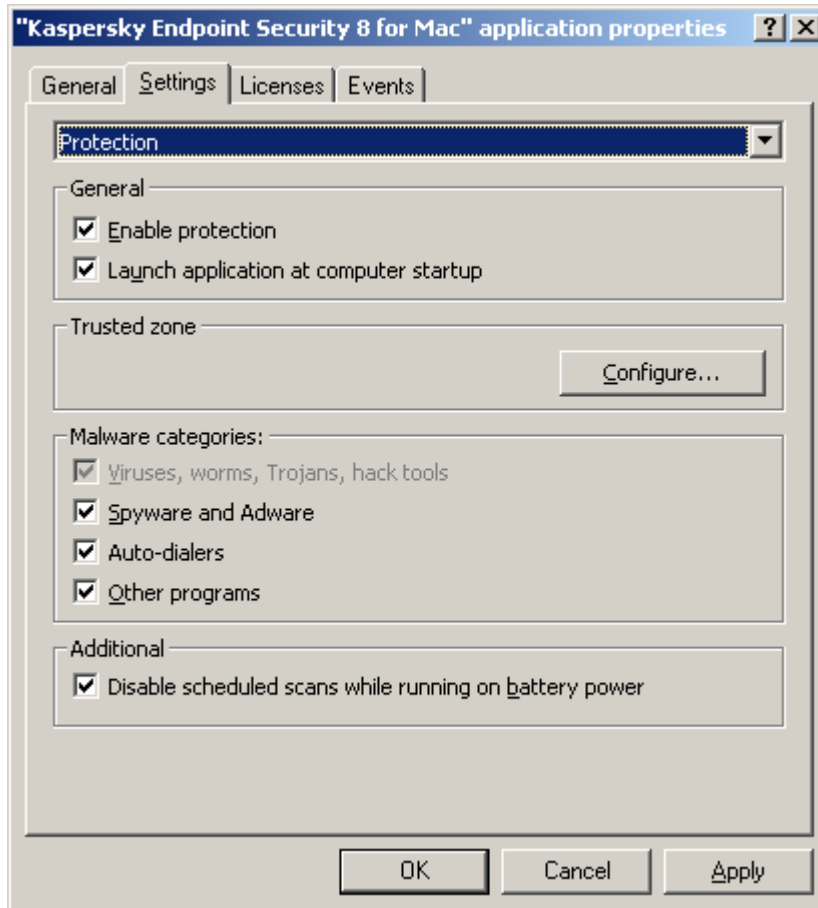


Figure 64. Application settings window. The Settings tab. Protection

## ALSO SEE:

Selecting malicious programs to be monitored..... [49](#)

## CONFIGURING THE POWER-SAVING MODE

By default, Kaspersky Endpoint Security runs in power-saving mode. In this mode, the virus scan task for which the schedule is set will not start if a computer with the application installed on it is powered with a battery.

► To disable the power-saving mode on a remote computer:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.

4. Select the **Protection** item from the dropdown list in the top part of the window.
5. In the **Additional** section (see figure above), uncheck the **Disable scheduled tasks while running on battery power** box.

## CONFIGURING RECEIPT OF NOTIFICATIONS

➤ *To configure the receipt of notifications of events that occur on a remote computer:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Interaction with user** item from the dropdown list in the top part of the window.
5. In the **Events notification** section (see figure below), check the **Enable notifications** box and proceed to the advanced configuration. To do so, click the **Additional** button.

In the window that opens, you can configure the following types of notifications about the events listed above:

- *Pop-up message on screen*, which contains information about an event that has occurred.

To use this notification type, check the box in the **Balloon** field next to the event you want to be notified of.

- *Audio message*.

If you want a notification to be accompanied by a sound file, check the box in the **Sound** field next to the event name.

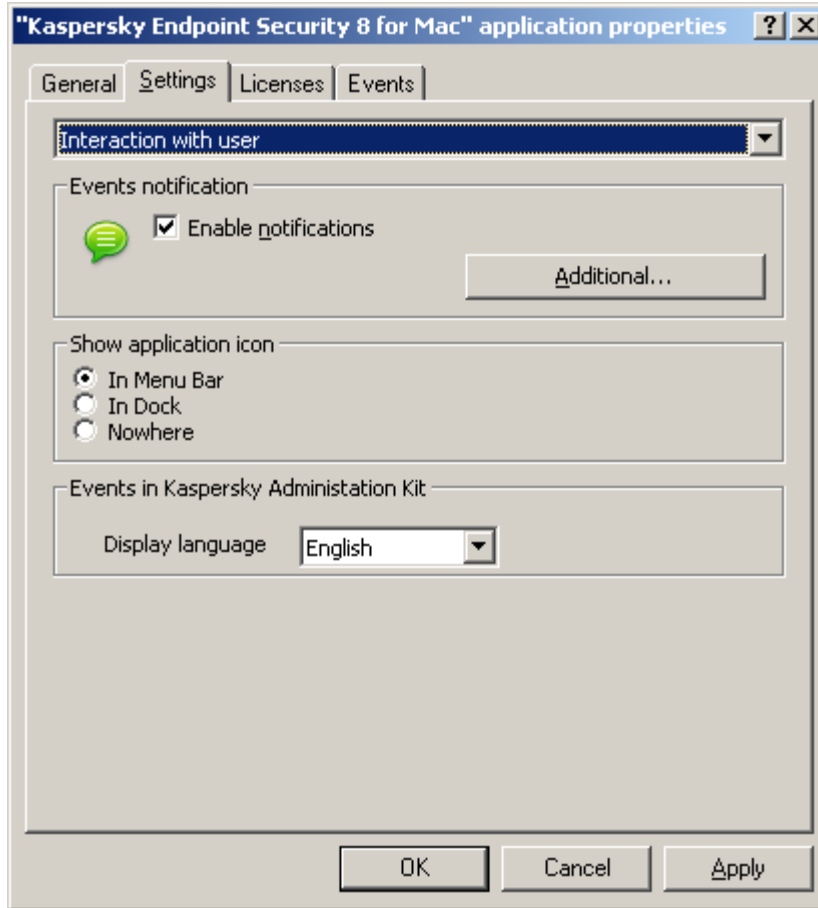


Figure 65. Application settings window. The Settings tab. Interaction with user

## ALSO SEE:

Notification windows and pop-up messages ..... [35](#)

## CONFIGURING THE KASPERSKY ENDPOINT SECURITY ICON DISPLAY

By default, the Kaspersky Endpoint Security icon is located in the Menu Bar. You can edit the application settings so that the application icon is displayed in the Dock of the remote computer or not displayed at all.

➤ To display the application icon in the Dock quick launch panel:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Interaction with user** item from the dropdown list in the top part of the window.
5. In the **Show application icon** section (see figure above) select the **In Dock** option.

➤ *To disable the display of the application icon on a remote computer:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Interaction with user** item from the dropdown list in the top part of the window.
5. In the **Show application icon** section (see figure above) select the **Nowhere** option.

Note that this modification will only take place after Kaspersky Endpoint Security is restarted.

#### ALSO SEE:

Kaspersky Endpoint Security icon ..... [30](#)

## CONFIGURING THE REPORT SETTINGS

➤ *To configure the settings for creating and saving reports on the operation of Kaspersky Endpoint Security installed on a remote computer:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Reports and Storages** item from the dropdown list in the top part of the window.
5. In the **Reports** section (see figure below), configure the following settings:

- Allow informational events to be logged.

As a rule, these events are not important for security. To log these events in the report, check **Log non-critical events** box.

- Save only important events in the report that occurred during the most recent task.

This saves disk space by reducing the size of the report. If the **Keep only recent events** box is checked, the information in the report will be updated every time you restart the task: in this case important information (such as records about malicious objects detected) will be saved, and non-critical information will be overwritten.

- Set the storage period for reports.

The default storage duration for reports is 30 days. Then the reports will be deleted. You can change the maximum storage period or remove this restriction.

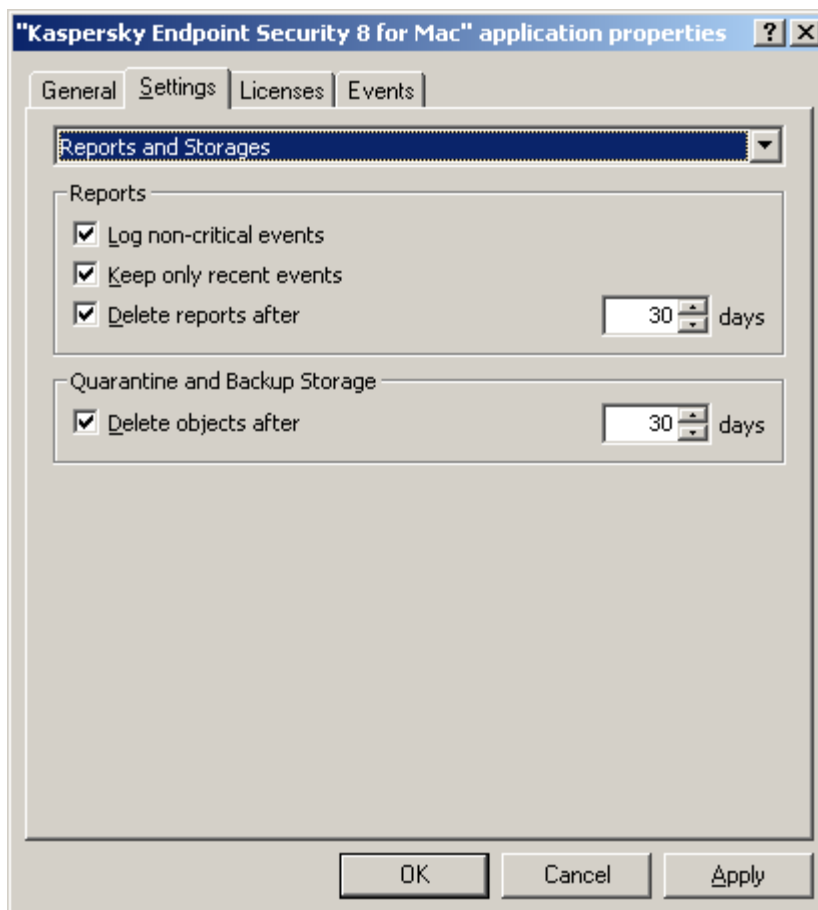


Figure 66. Application settings window. The Settings tab. Reports and storage areas

## CONFIGURING QUARANTINE AND BACKUP STORAGE

You can set a time limit on the storage of objects in Quarantine and Backup Storage on a remote computer. By default, the storage period is 30 days, after which objects are deleted. You can change the maximum storage period for objects or remove this restriction.

➤ To configure the settings for storing objects, do the following:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Reports and Storages** item from the dropdown list in the top part of the window.
5. In the **Quarantine and Backup Storage** section (see figure above), check the **Delete objects after** box and specify the period after which objects are automatically deleted from the storages.

## CONFIGURING CONNECTION TO A PROXY SERVER

If the remote client computer connects to the Internet through a proxy server, the settings must be configured for it. Kaspersky Endpoint Security uses these settings for updating anti-virus databases and modules.

➤ *To configure the remote computer's connection to a proxy server:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Applications** tab.
2. Select **Kaspersky Endpoint Security 8 for Mac** from the list of all Kaspersky Lab applications installed on the computer and click the **Properties** button.
3. In the application settings window that opens, select the **Settings** tab.
4. Select the **Network settings** item from the dropdown list in the top part of the window.
5. Check the **Use proxy server** box (see figure below) and edit the following settings for connecting to a proxy server:
  - the use of proxy server settings, specified in the Mac OS X preferences or defined by the user of proxy server address and port;
  - the option of using a proxy server when updating the application from a local or network folder;
  - authentication settings for connection to a proxy server.

If you are downloading the update from an FTP server, connection to the server is in passive mode by default. If this connection fails, it will attempt to connect in active mode.

By default, the time assigned to connect to an update server is one minute. If a connection cannot be established, after this period an attempt is made to connect to the next update source in the list. This continues until a connection is successfully established, or until all the available update servers have been tried.

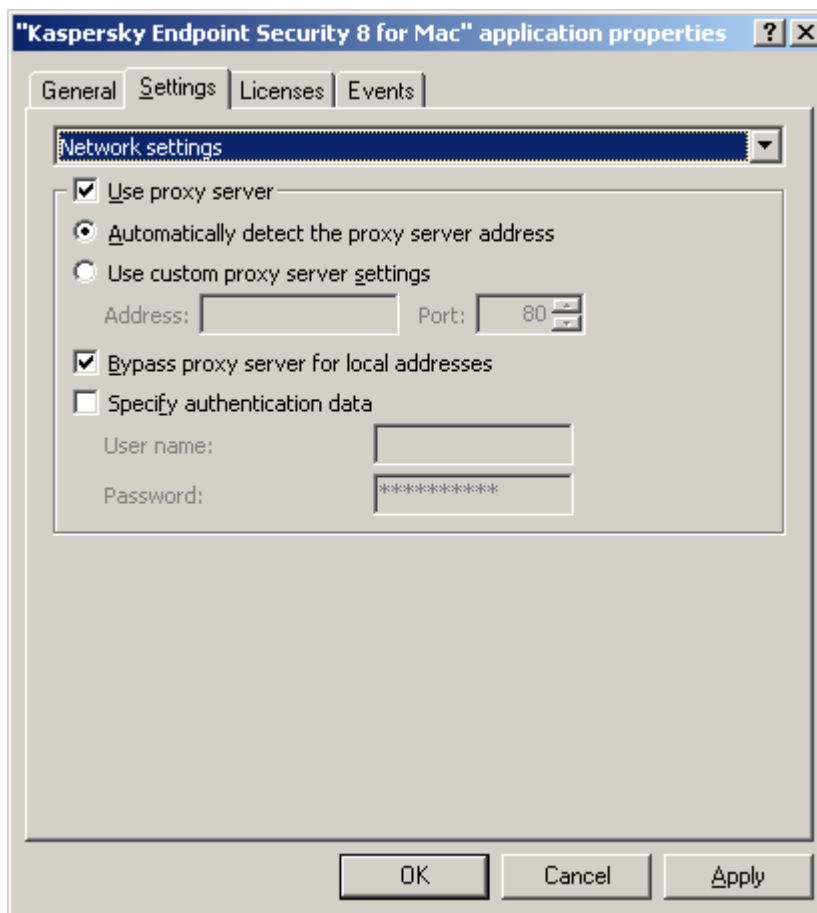


Figure 67. Application settings window. The Settings tab. Network configuration

## MANAGING TASKS

This section provides information about how to manage tasks for Kaspersky Endpoint Security<sup>16</sup>.

A list of system tasks is created for each networked computer when the application is installed. This list includes protection tasks (File Anti-Virus), several virus scan tasks (Full Scan, Quick Scan), and update tasks (update of the application databases and modules and update rollback).

You can manage the schedule for system tasks and configure the settings for them. System tasks cannot be deleted.

You can also create user tasks, such as virus scan tasks, application update tasks, update rollback tasks, and the key file installation task.

You can take the following actions<sup>17</sup> on user tasks:

- adjust the settings of a task;
- track the execution of a task;

<sup>16</sup> For more information, see the Kaspersky Administration Kit Administrator Guide.

<sup>17</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

- copy and move tasks from one group to another, or delete tasks using the context menu;
- import and export tasks.

➤ *To view the list of tasks created for a client computer:*

1. Start Kaspersky Administration Kit Administration Console .
2. Expand the **Administration Server** node.
3. In the **Managed computers** folder, select the folder with the name of the group that contains the client computer, and then select the Client computers subfolder.
4. In the results panel on the right, select the computer on which Kaspersky Endpoint Security is installed.
5. Right-click the area to open the context menu, select the **Properties** item. The properties window on the client computer will open.
6. Select the **Tasks** tab (see figure below) to view the complete list of tasks created for the client computer.

The following control buttons are located under the list of tasks:

- **Add**. Clicking this button opens the New task wizard (on page [139](#)). You can create a new task for Kaspersky Lab applications installed on the computer.
- **Delete**. Clicking this button opens a window that requests confirmation of the action, after which the task selected from the list is deleted.
- **Results**. Clicking this button opens the **Task results** window.
- **Properties**. Clicking this button opens the View Task Settings window. You can view the task settings and edit them, if necessary.



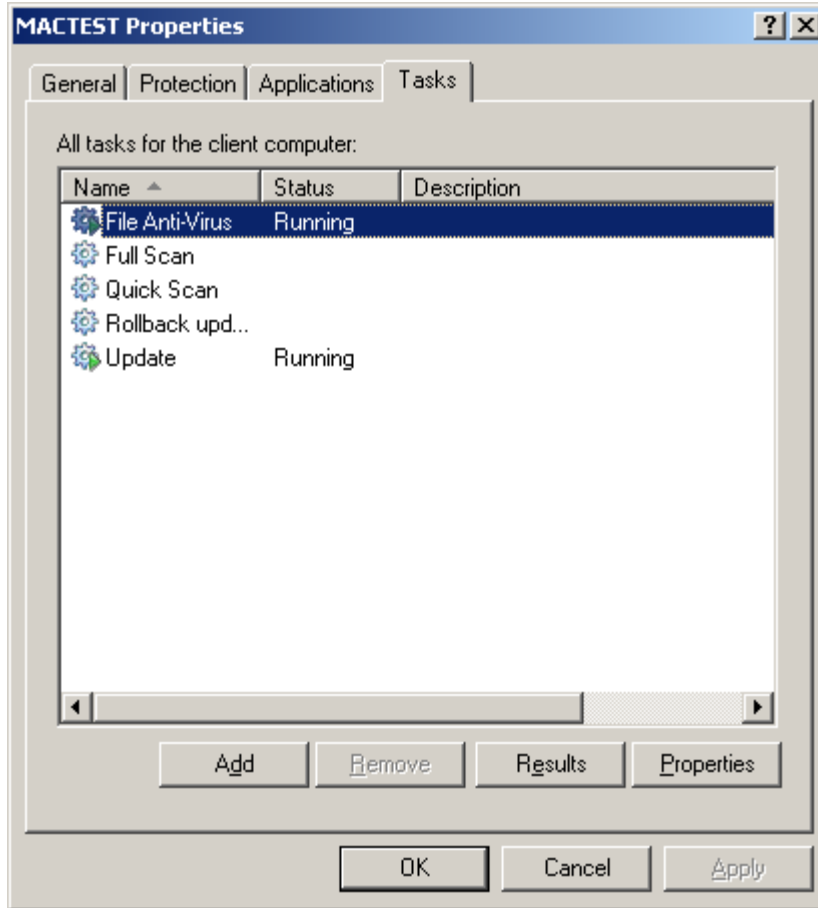


Figure 68. The properties window of the client computer. The Tasks tab

## IN THIS SECTION:

Starting and stopping tasks .....	<a href="#">137</a>
Creating tasks .....	<a href="#">138</a>
New task wizard .....	<a href="#">139</a>
Configuring task settings .....	<a href="#">140</a>

## STARTING AND STOPPING TASKS

Tasks are only started on a remote computer if Network Agent is running. If Network Agent stops running, run of all active tasks is interrupted.

Tasks are started and stopped automatically, according to a schedule, or manually using the context menu commands and from the View Task Settings window.

➤ To manually start or stop the task run:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Tasks** tab (see figure above).

2. Select the required task from the list and right-click to open the required option – **Start** or **Stop**.

or

Select the required task from the list and click the **Properties** button. On the **General** tab in the task properties window that opens, start or stop the task run using the respective buttons.

## CREATING TASKS

When working with Kaspersky Endpoint Security via Kaspersky Administration Kit, you can create the following types of tasks:

- local tasks, defined for individual client computers;
- group tasks defined for client computers that belong to administration groups;
- tasks for computers that are defined for computers outside of administration groups;
- Kaspersky Administration Kit tasks are specific tasks for the Update Server: update download tasks, backup tasks, and report sending tasks.

Computer group tasks are only performed on the selected set of computers. A task will not be run for new client computers which are added to a group that includes computers for which a remote installation task has already been created. You should create a new task or make corresponding changes to the settings of the existing one.

### ➤ To create a local task:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Tasks** tab (see figure above).
2. Click the **Add** button. The New task wizard opens (on page [139](#)). Follow the instructions to create a new task for the client computer.

### ➤ To create a group task, carry out the following steps:

1. Start Kaspersky Administration Kit Administration Console .
2. Expand the **Administration Server** node.
3. In the **Managed computers** folder, select the folder with the name of the group containing the computers for which you want to create a task, then select the **Group tasks** subfolder.
4. Click the **Create Task** link in the taskbar to open the New task wizard. Follow its instructions to create a new group task. The specifics of creating group tasks are covered in the Kaspersky Administration Kit Reference Guide.

### ➤ To create a task for specific computers (Kaspersky Administration Kit task):

1. Start Kaspersky Administration Kit Administration Console.
2. Select the **Tasks for specific computers** folder (**Kaspersky Administration Kit tasks**).
3. Click the **Create Task** link in the taskbar to open the New task wizard. Follow its instructions to create a new task for specific computers or a task for Kaspersky Administration Kit. The specifics of creating Kaspersky Administration Kit tasks or tasks for specific computers are covered in the Kaspersky Administration Kit Reference Guide.

## NEW TASK WIZARD

You can create new tasks from Kaspersky Lab applications installed on a separate client computer using New task wizard.

The wizard comprises a series of screens (steps) that you can navigate using the **Back** and the **Next** buttons; to close the wizard once it has completed its work, use the **Finish** button. To stop the wizard at any stage, use the **Cancel** button.

➔ *To open the New task wizard:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Tasks** tab.
2. Click the **Add** button.

### STEP 1. ENTERING GENERAL DATA ON THE TASK

In the **Task name** window, in the **Name** field, specify the name of the task being created.

### STEP 2. SELECTING AN APPLICATION AND DEFINING THE TASK TYPE

In the **Task type** window, select the Kaspersky Lab application, for which the task is created: **Kaspersky Endpoint Security 8 for Mac** or **Network Agent**, then select the type of the task to be created. The following types of tasks can be created for Kaspersky Endpoint Security:

- **Update** – retrieves and installs update packages for the application.
- **Roll back update** – rolls back the last update of the application.
- **Virus Scan** – task of scan of the user-specified areas for viruses.
- **Key file installation** – task of installation of a new license key file.

The **Change Administration Server**<sup>18</sup> task can be created for Network Agent.

### STEP 3. CONFIGURING SETTINGS FOR THE SELECTED TASK TYPE

Depending on the task type selected during the previous step, the contents of the settings window may vary.

#### Virus Scan

In the **Virus Scan** window, carry out the following actions:

1. Create a list of objects to scan for the virus scan task. If necessary, you can add objects to the list and remove them. Click the **Next** button to proceed with the configuration.
2. Specify the action that Kaspersky Endpoint Security should perform if an infected or potentially infected object is detected.

#### Update

In the **Update** window, you should specify the source from which updates will be downloaded to run the update task for anti-virus databases and application modules. By default, the update is carried out from the Administration Server and Kaspersky Lab update servers. Edit the list of update sources, if necessary.

<sup>18</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

## Roll back update

The rollback update task contains no specific settings.

## Installing a key file

In the **License management** window, click the **Browse** button and specify the path to a key file in the standard window that opens. If the key file is added as a key file for an additional license, check the **Add key file as backup one** box. The backup license takes effect when the active license key expires.

Information about the installed key file (key number, key type, and expiration date) is displayed below.

## Changing the Administration Server.

In the **Settings** window, specify the settings that Network Agent installed on client computers should use to connect to a new Administration Server.<sup>19</sup>

## STEP 4. CONFIGURING A SCHEDULE

In the **Task scheduling settings** window, select a task run mode: manually or by a schedule.

To do this, select the value that will define the frequency of the task run from the dropdown list, and specify the time of the task run.

## STEP 5. COMPLETING TASK CREATION

The last window of the wizard will inform you that you have successfully created a task. Click the **Finish** button to close the Assistant.

## CONFIGURING TASK SETTINGS

Adjusting the settings of a Kaspersky Endpoint Security task via the Kaspersky Administration Kit interface is similar to configuring the task via the local interface of the application. The list of exceptions includes the user-specific settings, as well as the settings, which are specific to Kaspersky Administration Kit, such as settings that allow (or block) the user to manage the local virus scan task.

If a policy, has been created for the application, that prohibits redefining certain settings, these settings cannot be edited when configuring tasks.

All tabs of the task properties window, except for the **Settings** tab, are standard for Kaspersky Administration Kit<sup>20</sup>. The **Settings** tab contains specific settings for Kaspersky Endpoint Security, which may vary depending on the selected task type.

➤ *To view and edit the settings of a local task:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Tasks** tab.
2. Select the required task from the list and click the **Properties** button. The task properties window opens (see figure below).

➤ *To view and edit the settings of group tasks:*

1. Start Kaspersky Administration Kit Administration Console .

<sup>19</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

<sup>20</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

2. Expand the **Administration Server** node.
3. In the **Managed computers** folder, select the folder with the name of the required group, then select the **Group tasks** subfolder.
4. Select the required task from the console tree to view and edit its properties.

The taskbar will display comprehensive information about the task and links in order to manage the task run and edit its settings. Further information about creating group tasks can be found in the Kaspersky Administration Kit Reference Guide.

➤ To view and edit the settings for specific computers (Kaspersky Administration Kit task):

1. Start Kaspersky Administration Kit Administration Console.
2. Select the **Tasks for specific computers** folder (**Kaspersky Administration Kit tasks**).
3. Select the required task from the console tree to view and edit its properties.

The taskbar will display comprehensive information about the task and links in order to manage the task run and edit its settings. Further information about Kaspersky Administration Kit tasks for sets of computers can be found in the Kaspersky Administration Kit Reference Guide.

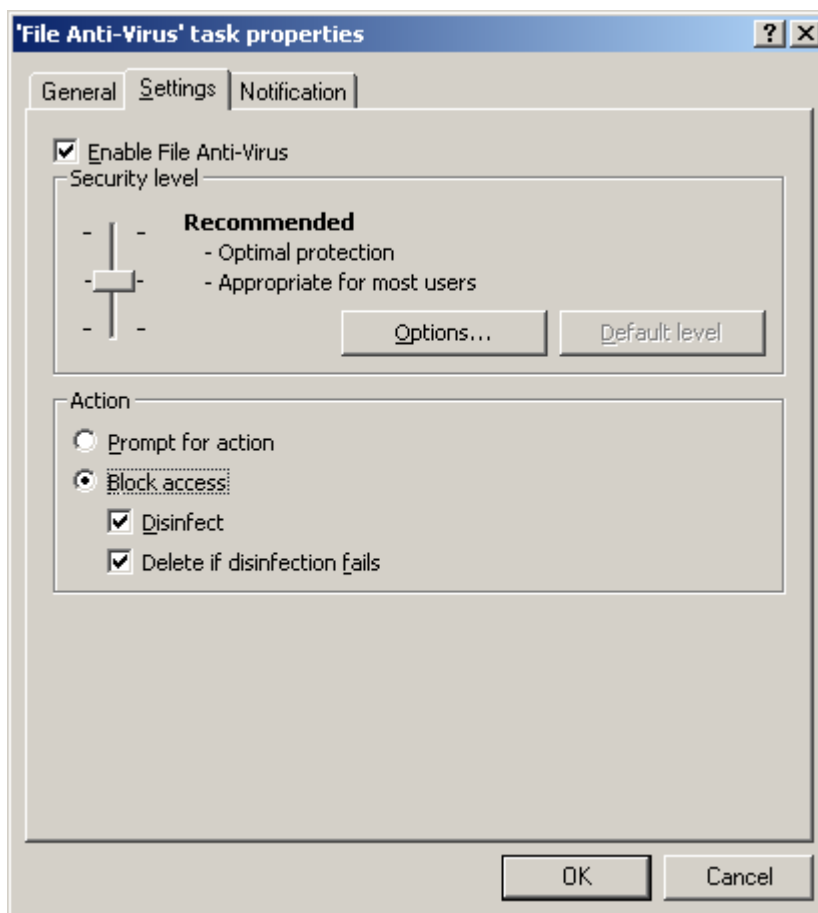


Figure 69. The File Anti-Virus task properties window. The Settings tab

## CONFIGURING FILE ANTI-VIRUS

➤ *To view and edit File Anti-Virus settings:*

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Tasks** tab.
2. Select **File Anti-Virus** task from the list and click the **Properties** button.
3. In the task properties window that opens, on the **Settings** tab (see figure above), edit the following settings:
  - Enable or disable File Anti-Virus on the remote computer using the corresponding box.
  - In the **Security level** section, set the protection level for the file system of the remote computer by moving the slider up or down the scale, or click the **Options** button to edit the settings of the current security level. In the **Settings: File Anti-Virus** window that opens (see figure below), edit the file protection settings:
    - on the **General** tab, specify which object formats should be scanned for viruses by Kaspersky Endpoint Security when they are opened, run, or saved (the **File types** section), adjust the scan performance, and select a scan technology (the **Optimization** section), then select which compound files should be scanned for viruses, and set a restriction on the scan of large-sized objects (the **Compound files** section);
    - on the **Protection scope** tab, specify disks or folders that should be controlled by File Anti-Virus. By default, all objects located on the hard, removable and network disk drives connected to your computer are protected. You can add an object to scan, modify an object on the list, temporarily disable scanning of an object on the list, or remove an object;
    - on the **Advanced** tab, select a triggering operating mode for File Anti-Virus (the **Scan mode** section), enable a scheduled pause of File Anti-Virus, and configure the schedule (the **Pause task** section), then configure the usage of the heuristic analyzer by File Anti-Virus (the **Heuristic analyzer** section).
  - In the **Action** section, select the action that File Anti-Virus should carry out if an infected or potentially infected object is detected.

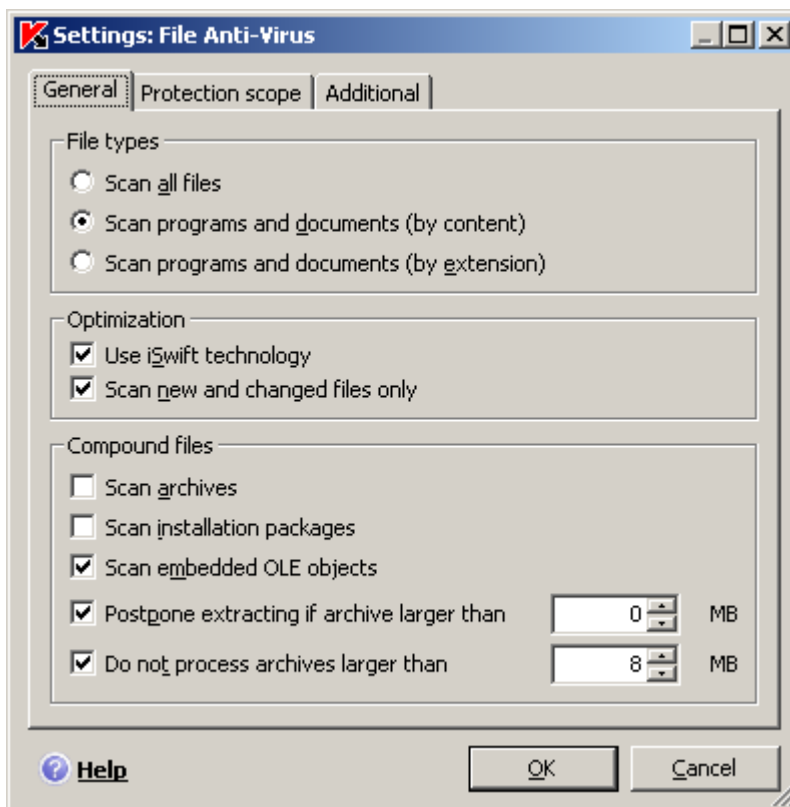


Figure 70. The Settings: File Anti-Virus window

## CONFIGURING VIRUS SCAN TASKS

➔ To view and edit the settings of a virus scan task:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Tasks** tab.
2. Select a virus scan task from the list and click the **Properties** button.
3. In the task properties window that opens, on the **Settings** tab (see figure below), edit the following settings:
  - In the **Security level** section, set the level at which the virus scan task should scan objects on a remote computer by moving the slider up or down the scale, or click the **Settings** button to edit the current security level settings. In the window that opens (see figure below), modify the security level settings:
    - on the **General** tab, specify which file formats should be scanned by Kaspersky Endpoint Security when running virus scan tasks (the **File types** section), adjust the scan performance (the **Optimization** section), and select which compound files should be scanned for viruses (the **Compound files** section);
    - on the **Advanced** tab configure using scan technology and resuming a stopped task (the **Advanced options** section), and using of the heuristic analyzer in virus scan tasks (the **Heuristic analyzer** section).
  - In the **Action** section, select the action that Kaspersky Endpoint Security should carry out when an infected or potentially infected object is detected;

- In the **Objects to scan** section, specify the objects that should be scanned by Kaspersky Endpoint Security when running the task. You can add an object to scan to the list, temporarily disable scanning of an object on the list, or remove an object.

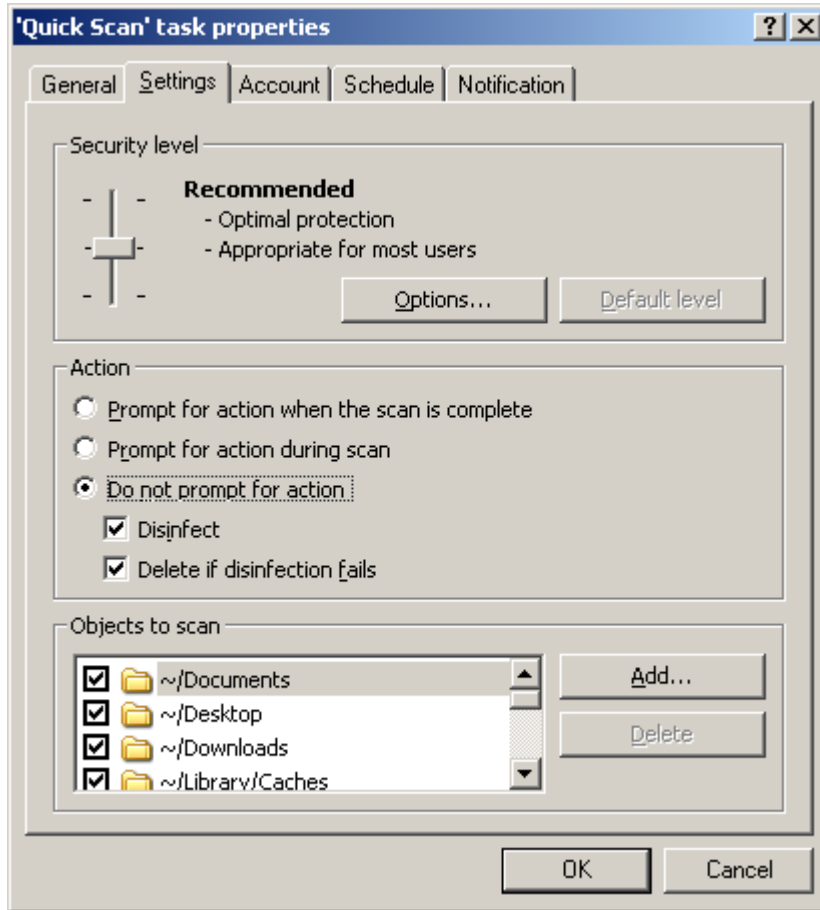


Figure 71. The "Quick Scan" task properties window. The Settings tab



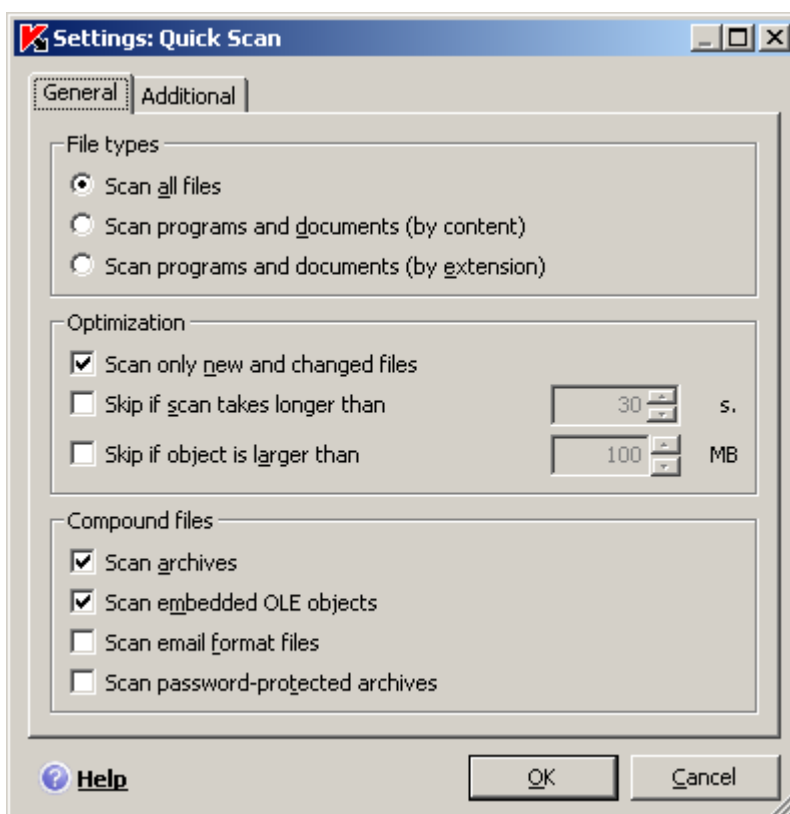


Figure 72. The Settings: Quick Scan window

## CONFIGURING THE UPDATE TASK

➤ To view and edit the update task settings:

1. Open the properties window on the client computer (see section "Managing the application" on page [121](#)) on the **Tasks** tab.
2. Select the required task from the list and click the **Properties** button.
3. In the task properties window that opens, on the **Settings** tab (see figure below), edit the following settings:
  - In the **Update parameters** section, specify if the application update process should cover both anti-virus databases and application modules. To do this, check the **Update program modules** box. You can also select an update source and configure the distribution of updates into a local source. To do this, click the **Settings** button. The **Update Settings** window opens (see figure below), here you can:
    - on the **Update source** tab, specify the source where updates for the anti-virus databases and application modules should be downloaded. By default, the update is carried out from the Administration Server and Kaspersky Lab update servers. You can add a new update source to the list, change the update source, temporarily disable the retrieval of updates from the source, and remove the update source from the list;
    - on the **Additional** tab, enable the service of update copying to a local source and specify the path to a shared folder in which all retrieved updates will be stored.
  - In the **Action after update** section, specify if the Kaspersky Endpoint Security should run a scan of objects moved to Quarantine after the application is updated.

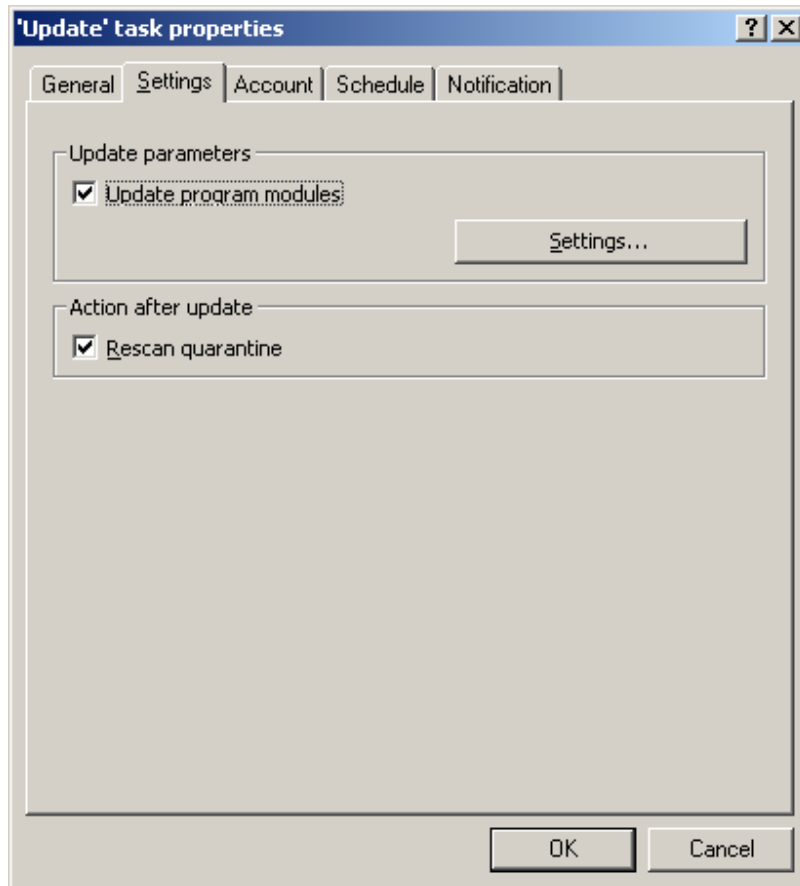


Figure 73. The Update task properties window. The Settings tab

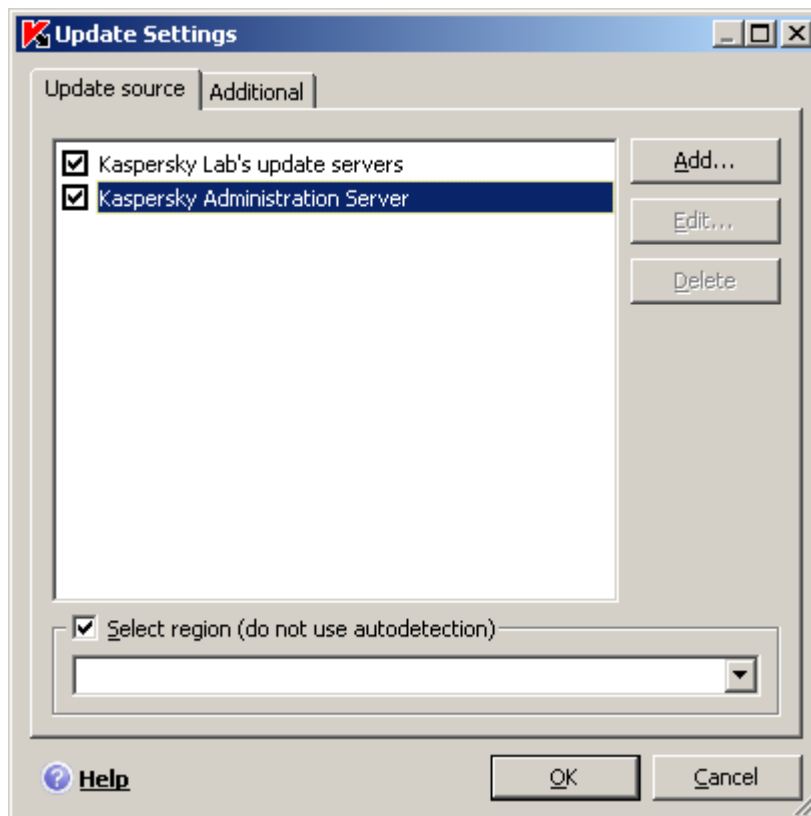




Figure 74. The Update Settings window

## MANAGING POLICIES

Setting up policies allows you to apply universal application and task settings to client computers that belong to a single administration group.

This section provides information about how to create and configure policies for Kaspersky Endpoint Security<sup>21</sup>.

When creating and configuring a policy, you can fully or partially block the settings from being edited in the policies of nested groups, task settings, and application settings. To do this, click the  button. It should change to  for settings that are locked.

You can carry out the following actions on policies:

- create policies;
- configure policies;
- copy and move policies from one group to another as well as remove policies using the context menu;
- import and export policy settings.

➤ *To open the list of policies created for Kaspersky Endpoint Security:*

1. Start Kaspersky Administration Kit Administration Console.
2. Expand the **Administration Server** node.
3. In the **Managed computers** folder select the folder with the name of the group that includes the required client computer.
4. In the selected group, select the **Policies** subfolder. The console tree will contain all policies that have been created for this group.

### IN THIS SECTION:

Creating policies.....	<a href="#">147</a>
Policy Creation Wizard .....	<a href="#">148</a>
Configuring policy settings .....	<a href="#">150</a>

## CREATING POLICIES

When working with Kaspersky Endpoint Security via Kaspersky Administration Kit, you can create policies for the application.

➤ *To create a policy, carry out the following steps:*

1. Start Kaspersky Administration Kit Administration Console .
2. Expand the **Administration Server** node.

<sup>21</sup> For more information, see the Kaspersky Administration Kit Administrator Guide.

3. In the **Managed computers** folder select the folder with the name of the group that includes the required client computer.
4. In the selected group, select the **Policies** subfolder. The console tree will contain all policies that have been created for this group.
5. Click the **Create a policy** link in the taskbar to run the Policy Creation Wizard (on page [148](#)). Follow the steps to create a new policy for Kaspersky Endpoint Security.

## POLICY CREATION WIZARD

You can add new policies to determine a uniform application and task configuration for client computers within an administration group by using the New policy wizard.

The wizard comprises a series of screens (steps) that you can navigate using the **Back** and the **Next** buttons; to close the wizard once it has completed its work, use the **Finish** button. To stop the wizard at any stage, use the **Cancel** button.

### STEP 1. ENTERING GENERAL DATA ON THE POLICY

In the **Policy name** window, in the **Name** field, specify the name of the policy to be created.

### STEP 2. SELECTING AN APPLICATION

In the **Application** window, select the Kaspersky Lab application that the policy has been created for: **Kaspersky Endpoint Security 8 for Mac**.

### STEP 3. SELECTING A POLICY STATUS

In the **Create a policy** window, select a status of the policy<sup>22</sup> that will be assigned to it after creation. The following statuses can be assigned to a policy:

- active policy;
- inactive policy;
- policy for mobile user.

Several policies can be created for a group of computers for a single application, but only one of them can be the current (active) policy.

### STEP 4. CONFIGURING WEB TRAFFIC SETTINGS

In the **Protection** window, enable or disable the protection components that will be used by the policy.

All protection components are enabled by default. To disable any of the components, uncheck the appropriate box. To configure advanced settings for a protection component, select it from a list and click **Settings**.

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<sup>22</sup> For more information, see the Kaspersky Administration Kit Reference Guide.

**ALSO SEE:**


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Enabling and disabling file protection .....	<a href="#">124</a>
Configuring the automatic startup of Kaspersky Endpoint Security .....	<a href="#">125</a>
Creating a trusted zone .....	<a href="#">126</a>
Selecting malicious programs to be monitored.....	<a href="#">128</a>
Configuring the power-saving mode.....	<a href="#">129</a>
Configuring File Anti-Virus.....	<a href="#">142</a>

**STEP 5. ADJUSTING THE VIRUS SCAN SETTINGS**

In the **Virus Scan** window, adjust the default settings that should be applied to virus scan tasks.

**ALSO SEE:**


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Configuring virus scan tasks .....	<a href="#">143</a>
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**STEP 6. CONFIGURING UPDATE SETTINGS**

In the **Update** window, specify the default settings that should be applied to update tasks.

**ALSO SEE:**


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Configuring the update task .....	<a href="#">145</a>
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**STEP 7. NETWORK CONFIGURATION**

In the **Network settings** window, enter the settings to be used for connection to a proxy server.

If you do not want to use a proxy server to connect to the Internet while updating anti-virus databases and application modules, uncheck the **Use proxy server** box.

If this box is checked, you can modify the following settings for connecting to a proxy server:

- the use of proxy server settings, specified in the Mac OS X preferences or defined by the user of proxy server address and port;
- the option of using a proxy server when updating the application from a local or network folder;
- authentication settings for connection to a proxy server.

**ALSO SEE:**


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Configuring connection to a proxy server .....	<a href="#">134</a>
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## STEP 8. CONFIGURING USER INTERACTION SETTINGS

In the **Interaction with user** window, specify how the user will interact with Kaspersky Endpoint Security on a remote computer.

You can configure delivery of notifications to the user and change the appearance of the Kaspersky Endpoint Security icon on a remote computer.

### ALSO SEE:

Configuring receipt of notifications ..... [130](#)

Configuring the Kaspersky Endpoint Security icon display..... [131](#)

## STEP 9. CONFIGURING REPORTS AND STORAGES

In the **Reports and Storages** window, configure the settings for creating reports and storage as well as the settings for items in Quarantine and Backup Storage.

### ALSO SEE:





Configuring the report settings ..... [132](#)

Configuring Quarantine and Backup Storage..... [133](#)

## STEP 10. COMPLETING CREATION OF A POLICY

The last window in the wizard will inform you that you have successfully created a policy. Click the **Finish** button to close the Assistant.

The policy that you have created will be displayed in the console tree in the **Policies** folder for the corresponding administration group.

You can edit the settings of the policy created and restrict modifications to these settings using the  and  buttons for each group of settings. If the  icon is displayed, the user of the client computer will not be able to edit the settings. Settings marked with the  icon can be edited by the user.

The policy will be applied to client computers after the first synchronization of the clients with Administration Server.

## CONFIGURING POLICY SETTINGS

Kaspersky Administration Kit allows you to make changes to the policy created, and block any modifications to its settings in the policies of nested groups, application settings, and task settings. The policy settings can be edited in the policy properties window, on the **Settings** tab (see figure below).

All tabs in the policy properties window, except for the **Settings** tab, are standard for Kaspersky Administration Kit<sup>23</sup>.

The policy settings for Kaspersky Endpoint Security include the application settings (see section "Modifying the application settings" on page [123](#)) and task settings (see section "Configuring task settings" on page [140](#)).

<sup>23</sup> For more information, see the Kaspersky Administration Kit Administrator Guide.

➤ To view and edit policies, carry out the following steps:

1. Start Kaspersky Administration Kit Administration Console .
2. Expand the **Administration Server** node.
3. In the **Managed computers** folder select the folder with the name of the group that includes the required client computer.
4. In the selected group, select the **Policies** subfolder. The console tree will contain all policies that have been created for this group.
5. Select the policy you need from the console tree in order to view and edit its properties.

The task panel will display comprehensive information on the policy and links for managing the policy status and configuring settings.

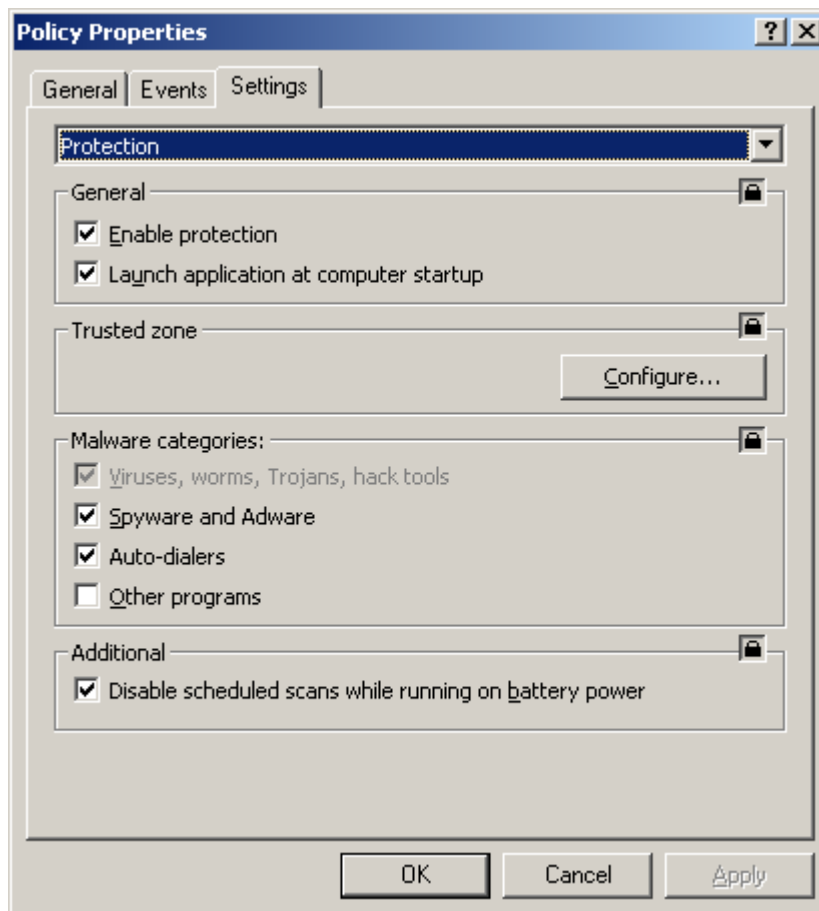



Figure 75. The Policy Properties window. The Settings tab

# CONTACTING TECHNICAL SUPPORT SERVICE

If you have purchased Kaspersky Endpoint Security, you can receive information from Technical Support Service either by phone or via the Internet. Technical Support Service specialists will answer your questions on installing and using the application, and if your computer has been infected they will help you to remove the problem.

➔ To view information about the ways you can receive support for Kaspersky Endpoint Security,

open the main application window (on page [32](#)) and click the  button.

Before contacting Technical Support, please read the support rules (<http://support.kaspersky.com/support/rules>).

If you encounter a problem when using Kaspersky Endpoint Security, first of all check to see if a solution can be found in the documentation, help system, Knowledge Base on the Kaspersky Lab Technical Support Service website, or on the users forum (see section "Additional sources of information" on page [15](#)). If you do not find a solution to your problem, we recommend that you contact Kaspersky Lab Technical Support Service.

Please note that you must be a registered user of the commercial version of Kaspersky Endpoint Security to use this service. No support is provided to users of trial versions.

If you activate Kaspersky Endpoint Security using an activation code, registration of the user will be carried out by the Activation Assistant (see section "Kaspersky Endpoint Security activation" on page [27](#)).

If you activate Kaspersky Endpoint Security using a key file, go through the registration procedure on the Technical Support Service website (<http://support.kaspersky.com/>).

Following registration you will receive a Customer ID and password that are required to access your Personal Cabinet on the Technical Support Service website. In your Personal Cabinet, you can take the following actions:

- send requests to Technical Support Service before registration;
- exchange messages with Technical Support Service without using email;
- monitor requests in real time;
- view a complete history of all your queries;
- obtain a backup copy of the key file.

## Email query to Technical Support Service

To contact Technical Support, open the web form available at the Helpdesk (<http://support.kaspersky.com/helpdesk.html>). On the Technical Support Service page that opens, enter your Personal Cabinet and fill in the form.

You can send your query in Russian, English, German, French, or Spanish.

To send your query by email, specify the **Customer ID** and **password** that you received during registration at the Technical Support Service website.

Describe the problem you have encountered in the web form, providing as much detail as possible. Specify the following in the required fields:



- **Type of query.** Select the subject that best matches the problem you have encountered, such as "Product installation / uninstallation problem" or "Virus scan / removal problem". If you have not found an appropriate topic, select "General question".
- **Application product name and version number.**
- **Text of query.** Describe the problem in as much detail as possible.
- **Customer ID and password.** Enter the Customer ID and password you received during registration on the Technical Support Service website.
- **Email address.** Technical Support Service will send an answer to your query at this email address.

A Technical Support Service specialist will reply to your query in your Personal Cabinet and at the email address you have specified in your request.

### Technical support telephone service

If you encounter a problem, which requires an urgent assistance, you can call your nearest Technical Support office. Before contacting specialists at the Russian speaking ([http://support.kaspersky.ru/support/support\\_local](http://support.kaspersky.ru/support/support_local)) or international (<http://support.kaspersky.com/support/international>) Technical Support, please have all relevant information to hand (<http://support.kaspersky.com/support/details>) regarding your computer and the anti-virus application installed on it. This will help our support staff solve your problem more quickly.

### Creating a trace file

During Kaspersky Endpoint Security runtime, errors may arise, most likely due to conflicts between Kaspersky Endpoint Security and software installed on your computer. Kaspersky Lab Technical Support specialists may ask you to create a trace file to help diagnostics and to resolve your problem.

➡ *To create a trace file:*

1. Open the application settings window and select the **Reports** tab.
2. In the **Traces** section, check the **Enable trace logs** box.
3. Restart Kaspersky Endpoint Security to start the tracing process.

*You should only use this option when instructed to do so by a Kaspersky Lab Technical Support specialist.*

Trace logs can occupy a significant amount of space on your hard drive. When you are done with trace logs, it is recommended that you disable the generation of new ones by unchecking the **Enable trace logs** box on the **Reports** tab. After that, restart Kaspersky Endpoint Security.

# APPENDIX

This section of the Guide contains reference information about the file formats of scanned files and permissible masks when configuring Kaspersky Endpoint Security.

## IN THIS SECTION:

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List of objects to scan by extension.....	<a href="#">154</a>
Permissible file exclusion masks .....	<a href="#">156</a>
Allowed exclusion masks according to the Virus Encyclopedia classification .....	<a href="#">157</a>

## LIST OF OBJECTS TO SCAN BY EXTENSION

During configuration of File Anti-Virus (see section "Specifying the types of files to scan" on page [58](#)) or a virus scan task (see section "Specifying the types of files to scan" on page [72](#)), if you select **Scan programs and documents (by extension)**, objects with the extensions below will be scanned for viruses:

*com* – Microsoft Windows executable file of size not larger than 64 KB;

*exe* – executable file, Microsoft Windows self-unpacking archive;

*sys* – Microsoft Windows system file;

*prg* – program text for dBase, Clipper or Microsoft Visual FoxPro, or a WAVmaker program;

*bin* – Microsoft Windows binary file;

*bat* – Microsoft Windows batch file;

*cmd* – Microsoft Windows NT command file (as bat file for DOS), OS/2;

*dpl* – Borland Delphi packed library;

*dll* – Microsoft Windows dynamic-link library;

*scr* – Microsoft Windows screen-saver file;

*cpl* – Microsoft Windows control panel module;

*ocx* – Microsoft OLE (Object Linking and Embedding) object;

*tsp* – Microsoft Windows program that works in time-share mode;

*drv* – driver for a Microsoft Windows device;

*vxd* – driver for a Microsoft Windows virtual device;

*pif* – Microsoft Windows file with information about a program;

*lnk* – Microsoft Windows link file;

*reg* – Microsoft Windows system registry key file;

*ini* – Microsoft Windows initialization file;

*cla* – Java class;

*vbs* – Visual Basic script;

*vbe* – BIOS video extension;

*js, jse* – JavaScript source text;

*htm* – hypertext document;

*htt* – Microsoft Windows hypertext template;

*hta* – hypertext program for Microsoft Internet Explorer;

*asp* – Active Server Pages script;

*chm* – compiled HTML file;

*pht* – HTML file with embedded PHP scripts;

*php* – script embedded in HTML files;

*wsh* – Microsoft Windows Script Host file;

*wsf* – Microsoft Windows script;

*the* – Microsoft Windows 95 desktop theme file;

*hlp* – help file in Win Help format;

*eml* – Microsoft Outlook Express email message;

*nws* – new Microsoft Outlook Express email message;

*msg* – Microsoft Mail email message;

*plg* – email message;

*mbx* – extension for saved Microsoft Office Outlook message;

*doc\** – Microsoft Office Word document, including: *doc* – Microsoft Office Word document, *docx* – Microsoft Office Word 2007 document supporting XML language, *docm* – Microsoft Office Word 2007 document supporting macros;

*dot\** – Microsoft Office Word document template, including: *dot* – Microsoft Office Word document template, *dotx* – Microsoft Office Word 2007 document template, *dotm* – Microsoft Office Word 2007 document template supporting macros;

*fpm* – database program, Microsoft Visual FoxPro start file;

*rtf* – Rich Text Format document;

*shs* – Shell Scrap Object Handler object;

*dwg* – AutoCAD drawing database;

*msi* – Microsoft Windows Installer package;

*otm* – VBA project for Microsoft Office Outlook;

*pdf* – Adobe Acrobat document;

*swf* – Shockwave Flash package object;

*jpg, jpeg, png* – file in format for storing compressed images;

*emf* – file in Enhanced Metafile format. Next generation of Microsoft Windows metafile;

*ico* – object icon file;

*ov?* - MS DOS executable files;

*xl\** – Microsoft Office Excel documents and files, including: *xla* – Microsoft Office Excel extension, *xlc* – chart, *xlt* – document template, *xlsx* – Microsoft Office Excel 2007 workbook, *xltm* – Microsoft Office Excel 2007 workbook supporting macros, *xlsb* – Microsoft Office Excel 2007 workbook in binary (not XML) format, *xltx* – Microsoft Office Excel 2007 template, *xlsm* – Microsoft Office Excel 2007 template supporting macros, *xlam* – Microsoft Office Excel 2007 add-in supporting macros;

*pp\** – Microsoft Office PowerPoint documents and files, including: *pps* – Microsoft Office PowerPoint slide, *ppt* – presentation, *pptx* – Microsoft Office PowerPoint 2007 presentation, *pptm* – Microsoft Office PowerPoint 2007 presentation supporting macros, *potx* – Microsoft Office PowerPoint 2007 presentation template, *potm* – Microsoft Office PowerPoint 2007 presentation template supporting macros, *ppsx* – Microsoft Office PowerPoint 2007 slide show, *ppsm* – Microsoft Office PowerPoint 2007 slide show supporting macros, *ppam* – Microsoft Office PowerPoint 2007 add-in supporting macros;

*md\** – Microsoft Office Access documents and files, including: *mda* - Microsoft Office Access workgroup, *mdb* - database, etc.;

*sldx* – Microsoft Office PowerPoint 2007 slide;

*sldm* – Microsoft Office PowerPoint 2007 slide supporting macros;

*thmx* – Microsoft Office 2007 theme.

The actual file format may differ from that indicated in the file extension.

## PERMISSIBLE FILE EXCLUSION MASKS

There are several ways to create file masks when creating file exclusion lists:

1. Masks without file paths:
  - **\*.zip** – all files with the .zip extension;
  - **\*.zi?** – all files with the zi? extension where ? can represent any single character;
  - **test** – all files named test.
2. Masks with absolute file paths:
  - **/dir/\*** or **/dir/** – all files in the /dir/ folder;
  - **/dir/\*.zip** – all files with the .zip extension in /dir/ folder;
  - **/dir/\*.zi?** – all files with the zi? extension in the /dir/ folder where ? can represent any single character;
  - **/dir/test** – all files with the test name in the /dir/ folder and all subfolders.
3. Masks with relative file paths:

- **dir/\*** or **dir/** – all files in all folders called dir/;
- **dir/\*.zip** – all files with the zip extension in all dir/ folders;
- **dir/\*.zi?** – all files with the zi? extension in all dir/ folders where ? can represent any single character;
- **dir/test** – all files with the test name in all dir/ folders and all subfolders.

The \* exclusion mask can only be used if you also assign a threat type to exclude, using the nomenclature of the Virus Encyclopedia. The result is that the application will not look for the specified threat in any objects. Using this mask without selecting a threat type essentially disables monitoring.

## ALLOWED EXCLUSION MASKS ACCORDING TO THE VIRUS ENCYCLOPEDIA CLASSIFICATION

When adding a new threat exclusion using the Virus Encyclopedia classification, you can specify:

- Full name of the threat as stated in the Virus Encyclopedia on [www.securelist.com](http://www.securelist.com) ([www.securelist.com](http://www.securelist.com)) (e.g., **not-a-virus:RiskWare.RemoteAdmin.RA.311** or **Flooder.Win32.Fuxx**).
- The threat name by mask. For example:
  - **not-a-virus\*** – exclude legal but potentially dangerous programs from the scan, as well as joke programs;
  - **\*Riskware.\*** – exclude riskware from the scan;
  - **\*RemoteAdmin.\*** - exclude all remote administration programs from the scan.

You can view examples of threat names in the report window on the **Detected** tab, Quarantine, Backup Storage, and pop-up on-screen messages (see section "Notification windows and pop-up messages" on page [35](#)) informing you of detected dangerous objects.

# GLOSSARY

## A

### **ACTIVATING THE APPLICATION**

Conversion of the application into full-function mode. The user should use a license to activate the application.

### **ACTIVE LICENSE**

The license currently used for the operation of a Kaspersky Lab application. The license defines the expiration date for full functionality and the license policy for the application. The application cannot have more than one license with the active status.

### **ADDITIONAL LICENSE**

A license that has been added for the operation of a Kaspersky Lab application but has not been activated. The additional license enters into effect when the active license expires.

### **ADMINISTRATION SERVER**

Kaspersky Administration Kit component that centralizes the storage of information about Kaspersky Lab applications installed in the corporate network and about the management of those applications.

### **ADMINISTRATION SERVER CLIENT (CLIENT COMPUTER)**

A computer, server or workstation with Network Agent and managed Kaspersky Lab applications installed.

### **ADMINISTRATION GROUP**

A set of computers grouped together in accordance with the performed functions and the Kaspersky Lab applications installed on those machines. Computers are grouped for their convenient management as one single entity. A group can include other groups. A group can contain group policies for each application installed in it and the appropriate group tasks.

### **ARCHIVE**

File "containing" one or several other objects which may also be archives.

## B

### **BACKUP STORAGE**

Special storage designed to save backup copies of objects created before their first disinfection or deletion.

### **BLOCKING THE OBJECT**

Denying access to an object from external applications. A blocked object cannot be read, executed or changed.

## D

### **DANGEROUS OBJECT**

An object containing a virus. You are advised not to access these objects, because it may result in an infection of your computer. Once an infected object is detected, we recommend that you disinfect it using one of the Kaspersky Lab applications, or delete it if disinfection is not possible.

### **DATABASE UPDATES**

One of the functions performed by a Kaspersky Lab application that enables it to keep protection current. In doing so, the databases are downloaded from the Kaspersky Lab update servers onto the computer and are automatically connected to the application.

## DATABASES

Databases created by Kaspersky Lab's experts and containing a detailed description of all current threats to computer security as well as methods used for their detection and disinfection. These databases are constantly updated by Kaspersky Lab as new threats appear.

## E

### EXCLUSION

Exclusion is an object excluded from the scan by a Kaspersky Lab application. You can exclude files of certain formats, file masks, a certain area (for example, a folder or a program), application processes, or objects by threat type, according to the Virus Encyclopedia classification from the scan. Each task can be assigned a set of exclusions.

## F

### FALSE ALARM

Situation when Kaspersky Lab's application considers a non-infected object as infected due to its code similar to that of a virus.

### FILE MASK

Representation of a file name and extension using wildcards. The two standard wildcards used in file masks are \* and ?, where \* represents any number of any characters and ? stands for any single character. Using these wildcards, you can represent any file. Note that the name and extension are always separated by a period.

## G

### GROUP POLICY

see Policy

### GROUP TASK

A task defined for an administration group and performed on all client computers within this group.

### GROWL TECHNOLOGY

All-purpose system for notifying the user of the Mac OS X operating system. It supports customizable notification modes: in addition to pop-up notifications, the system features voice, SMS, and email notifications.

The appearance of notifications generated using Growl can be configured in the Other section of the System Preferences panel into which Growl is automatically integrated after installation.

## H

### HEURISTIC ANALYZER

Threat detection technology for threats that cannot be detected using Kaspersky Lab databases. It allows detecting objects suspected of being infected with an unknown virus or a new modification of known viruses.

The use of a heuristic analyzer detects up to 92% of threats. This mechanism is fairly effective and very rarely leads to false positives.

Files detected by the heuristic analyzer are considered suspicious.

**I****INFECTABLE OBJECT**

An object which, due to its structure or format, can be used by intruders as a "container" to store and distribute a malicious object. As a rule, they are executable files, for example, files with the .com, .exe, .dll extensions, etc. The risk of activating malicious code in such files is fairly high.

**INFECTED OBJECT**

Object containing a malicious code. It is detected when a section of the object's code completely matches a section of the code of a known threat. Kaspersky Lab does not recommend using such objects since they may infect your computer.

**K****KASPERSKY ADMINISTRATION KIT ADMINISTRATOR**

The person managing the application operations via the Kaspersky Administration Kit system of remote centralized administration.

**KASPERSKY LAB UPDATE SERVERS**

A list of Kaspersky Lab HTTP and FTP servers from which the application downloads databases and module updates to your computer.

**M****MAXIMUM PROTECTION**

Security level for your computer corresponding to the most complete protection that the application can provide. At this protection level, all files on the computer, removable storage media, and network drives are scanned for viruses if connected to the computer.

**N****NETWORK AGENT**

Component of Kaspersky Administration Kit that coordinates interaction between Administration Server and Kaspersky Lab applications installed on a network node (a workstation or a server). This component supports all Windows applications included in Kaspersky Lab products. Dedicated versions of the Network Agent exist for Kaspersky Lab's Novell, Unix and Mac applications.

**NETWORK PORT**

TCP and UDP parameter that determines the destination of data packets in IP format that are transmitted to a host over a network and makes it possible for various programs running on a single host to receive data independently of each other. Each program processes data received via a certain port (this is sometimes referred to as the program "listening" to that port).

For some common network protocols, there are usually standard port numbers (for example, web servers usually receive HTTP requests on TCP port 80); however, generally, a program can use any protocol on any port. Possible values: 1 to 65535.

**O****OBJECT DISINFECTION**

The method used for processing infected objects, which results in the complete or partial recovery of data, or the decision that the objects cannot be disinfected. Objects are disinfected using the database records. Part of the data may be lost during disinfection.



**OLE OBJECT**

An attached object or an object embedded into another file. Kaspersky Lab application allows the scanning of OLE objects for viruses. For example, if you insert a Microsoft Office Excel table into a Microsoft Office Word document, the table will be scanned as an OLE object.

**P****POLICY**

A set of application settings in an administration group managed by Kaspersky Administration Kit. Application settings can differ in various groups. A specific policy is defined for each application in a group. A policy includes the settings for the complete configuration of all application features.

**POTENTIALLY INFECTED OBJECT**

An object that contains modified code of a known virus or code that resembles code of a virus, but is not yet known to Kaspersky Lab. Potentially infected files are detected using heuristic analyzer.

**PROTECTION**

The application's operating mode under which objects are scanned for the presence of malicious code in real time.

The application intercepts all attempts to open any object (read, write, or execute) and scans the object for threats. Uninfected objects are passed on to the user; objects containing threats or suspected of containing them are processed pursuant to the task settings (they are disinfected, deleted or quarantined).

**PROTECTION STATUS**

The current status of protection, summarizing the degree of a computer's security.

**Q****QUARANTINE**

A specific folder, where all possibly infected objects are placed, which were detected during scans or by real-time protection.

**R****RECOMMENDED LEVEL**

Level of security based on the application settings recommended by Kaspersky Lab experts to provide the optimal level of protection for your computer. This level is set to be used by default.

**RESTORATION**

Moving an original object from Quarantine or Backup Storage to the folder where it was originally found before being moved to Quarantine, disinfected, or deleted, or to a different folder specified by the user.

**S****SUSPICIOUS OBJECT**

An object that contains modified code of a known virus or code that resembles code of a virus, but is not yet known to Kaspersky Lab. Suspicious objects are detected using the heuristic analyzer.

## T

### **TASK FOR A SET OF COMPUTERS**

A task assigned for a set of client computers from arbitrary administration groups within a logical network and performed on those hosts.

## U

### **UNKNOWN VIRUS**

A new virus about which there is no information in the databases. Generally unknown viruses are detected by the application in objects using the heuristic analyzer, and those objects are classified as potentially infected.

### **UPDATE**

The procedure of replacing/adding new files (databases or application modules) retrieved from the Kaspersky Lab update servers.

### **UPDATE PACKAGE**

File package for updating the software. It is downloaded from the Internet and installed on your computer.

# KASPERSKY LAB

Kaspersky Lab software is internationally renowned for its protection against viruses, malware, spam, network and hacker attacks, and other threats.

In 2008, Kaspersky Lab was rated among the world's top four leading vendors of information security software solutions for end users (IDC Worldwide Endpoint Security Revenue by Vendor). Kaspersky Lab is the preferred developer of computer protection systems among home users in Russia, according to the COMCON survey "TGI-Russia 2009".

Kaspersky Lab was founded in Russia in 1997. Today, it is an international group of companies headquartered in Moscow with five regional divisions that manage the company's activity in Russia, Western and Eastern Europe, the Middle East, Africa, North and South America, Japan, China, and other countries in the Asia-Pacific region. The company employs more than 2000 qualified specialists.

**Products.** Kaspersky Lab's products provide protection for all systems—from home computers to large corporate networks.

The personal product range includes anti-virus applications for desktop, laptop, and pocket computers, and for smartphones and other mobile devices.

Kaspersky Lab delivers applications and services to protect workstations, file and web servers, mail gateways, and firewalls. Used in conjunction with Kaspersky Lab's centralized management system, these solutions ensure effective automated protection for companies and organizations against computer threats. Kaspersky Lab's products are certified by the major test laboratories, are compatible with the software of many suppliers of computer applications, and are optimized to run on many hardware platforms.

Kaspersky Lab's virus analysts work around the clock. Every day they uncover hundreds of new computer threats, create tools to detect and disinfect them, and include them in the databases used by Kaspersky Lab applications. *Kaspersky Lab's Anti-Virus database is updated hourly, and the Anti-Spam database every five minutes.*

**Technologies.** Many technologies that are now part and parcel of modern anti-virus tools were originally developed by Kaspersky Lab. It is no coincidence that many other developers use the Kaspersky Anti-Virus kernel in their products, including: SafeNet (USA), Alt-N Technologies (USA), Blue Coat Systems (USA), Check Point Software Technologies (Israel), Clearswift (UK), CommuniGate Systems (USA), Critical Path (Ireland), D-Link (Taiwan), M86 Security (USA), GFI (Malta), IBM (USA), Juniper Networks (USA), LANDesk (USA), Microsoft (USA), NETASQ (France), NETGEAR (USA), Parallels (Russia), SonicWALL (USA), WatchGuard Technologies (USA), ZyXEL Communications (Taiwan). Many of the company's innovative technologies are patented.

**Achievements.** Over the years, Kaspersky Lab has won hundreds of awards for its services in combating computer threats. For example, in 2010 Kaspersky Anti-Virus received several top Advanced+ awards in a test administered by AV-Comparatives, a respected Austrian anti-virus laboratory. But Kaspersky Lab's main achievement is the loyalty of its users worldwide. The company's products and technologies protect more than 300 million users, and its corporate clients number more than 200,000.

Kaspersky Lab official site:

<http://www.kaspersky.com>

Virus Encyclopedia:

<http://www.securelist.com/en/>

Anti-Virus Lab:

<mailto:newvirus@kaspersky.com>

(only for sending potentially infected files in archives)

<http://support.kaspersky.ru/virlab/helpdesk.html?LANG=en>

(for sending requests to virus analysts)

Kaspersky Lab web forum:

<http://forum.kaspersky.com>

# INFORMATION ABOUT THIRD-PARTY CODE

Third-party code was used during the application development.

## IN THIS SECTION:

---

Program code.....	<a href="#">164</a>
Development tools .....	<a href="#">169</a>
Other information .....	<a href="#">173</a>

## PROGRAM CODE

Third-party program code was used during the application development.

## IN THIS SECTION:

---

ADOBE ABI-SAFE CONTAINERS 1.0.....	<a href="#">165</a>
BOOST 1.39.0.....	<a href="#">165</a>
CURL 7.19.3 .....	<a href="#">165</a>
EXPAT 1.2 .....	<a href="#">165</a>
FMT.H.....	<a href="#">166</a>
GROWL 1.1.5.....	<a href="#">166</a>
INFO-ZIP 5.51 .....	<a href="#">167</a>
LIBPNG 1.2.8.....	<a href="#">167</a>
LIBUTF.....	<a href="#">167</a>
LZMALIB 4.43 .....	<a href="#">168</a>
MD5.H.....	<a href="#">168</a>
MD5.H.....	<a href="#">168</a>
RFC1321-BASED (RSA-FREE) MD5 LIBRARY .....	<a href="#">168</a>
SHA1.C 1.2 .....	<a href="#">168</a>
STLPORT 5.2.1.....	<a href="#">169</a>
TINYXML 2.5.3.....	<a href="#">169</a>
ZLIB 1.0.8, 1.2.3.....	<a href="#">169</a>

## ADOBE ABI-SAFE CONTAINERS 1.0

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## CURL 7.19.3

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### **SHA1.C 1.2**

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## ZLIB 1.0.8, 1.2.3

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## DEVELOPMENT TOOLS

Third-party development tools and other resources were used during the application development.

### IN THIS SECTION:

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GCC 4.0.1 ..... [169](#)

## GCC 4.0.1

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# INDEX

## A

Actions on objects .....	61, 73, 91, 93
Activating the application with a key file .....	29
Activating the application with an activation code .....	28
Activation Assistant .....	27, 28, 29
Activation code .....	27, 28
Administration groups .....	158
Administration Server .....	158
Archives .....	58, 72

## B

Backup Storage .....	92
----------------------	----

## C

Custom installation .....	21
---------------------------	----

## D

Databases .....	80, 81, 84
automatic update .....	84, 87
manual update .....	81, 84
Default installation .....	20
Deployment .....	109

## F

File Anti-Virus	
enabling / disabling .....	54, 56, 124
heuristic analysis .....	60
protection scope .....	59
restoring default settings .....	62
scan of compound files .....	58
scan optimization .....	58
scan technology .....	60
security level .....	57
statistics on component operation .....	63

## I

Importing / exporting the settings .....	45
Infected object .....	160
Installation	
custom .....	21
default .....	20
remote .....	115

## K

Key file .....	27, 29
----------------	--------

## L

Launch	
automatic launch of the application .....	39, 125
virus scan tasks .....	65

License .....	24
active .....	158
<b>M</b>	
Main application window .....	32
Malicious programs .....	49
Management plugin installing.....	110
<b>N</b>	
Network proxy server .....	87
Network Agent.....	162
installation.....	111, 112
removal.....	114
Notifications.....	35
<b>P</b>	
Policies.....	147, 148, 150, 161
Protection scope .....	49, 126
<b>Q</b>	
Quarantine .....	90
<b>R</b>	
Remote install .....	115
Reports.....	94, 96
Restoring an object .....	47, 91, 93
<b>S</b>	
Scan scope .....	69, 143
Security Assistant.....	32, 41, 42
Security level File Anti-Virus .....	57
virus scan .....	71
Storages Backup.....	92
Quarantine.....	90
<b>T</b>	
Tasks.....	135, 139
group tasks .....	159
Threat types .....	49
Trusted zone exclusion rule.....	51, 126
<b>U</b>	
Update manual run.....	81
proxy server .....	87
rolling back the last update .....	81
scanning files in Quarantine .....	92
scheduled run .....	87
statistics.....	88
update object.....	84
update source.....	85
Update source.....	82, 85



Update task start ..... 81

## V

Virus Scan ..... 64

- heuristic analysis ..... 72
- list of objects to scan ..... 69
- operation statistics ..... 78
- restoring default settings ..... 77
- scan of compound files ..... 72
- scan optimization ..... 72
- scan technology ..... 72
- scheduled run ..... 74
- security level ..... 71

Viruses ..... 49