

AVG Anti-Virus Free Edition 2011

User Manual

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1. Introduction

This user manual offers a general overview of the tasks and detection technologies provided by **AVG Anti-Virus Free Edition 2011**. We will briefly talk about the program installation, initial startup, configuration and use.

AVG Anti-Virus Free Edition 2011 is provided free-of-charge, and its functionality is limited. While using **AVG Anti-Virus Free Edition 2011** you might discover you would like to have access to further and extended functionality of AVG paid products; then please visit AVG website (http://www.avg.com/) for information on AVG 10 purchase options.

All AVG products offer

- Protection that's relevant to the way you use your computer and the Internet: banking and shopping, surfing and searching, chatting and emailing, or downloading files and social networking – AVG has a protection product that's right for you
- Hassle-free protection that's trusted by over 110 million people around the world and fueled by a global network of highly-experienced researchers
- Protection that's backed by round-the-clock expert support



2. AVG Installation Requirements

2.1. Operation Systems Supported

AVG Anti-Virus Free Edition 2011 is intended to protect workstations with the following operating systems:

- Windows XP Home Edition SP2
- Windows XP Professional SP2
- Windows XP Professional x64 Edition SP1
- Windows Vista (x86 and x64, all editions)
- Windows 7 (x86 and x64, all editions)

(and possibly higher service packs for specific operating systems)

Note: The ID Protection component is not supported on Windows XP x64. On this operating system you can install AVG Anti-Virus Free Edition 2011 but only without the IDP component.

2.2. Minimum & Recommended HW Requirements

Minimum hardware requirements for AVG Anti-Virus Free Edition 2011:

- Intel Pentium CPU 1,5 GHz
- 512 MB of RAM memory
- 390 MB of free hard drive space (for installation purposes)

Recommended hardware requirements for AVG Anti-Virus Free Edition 2011:

- Intel Pentium CPU 1,8 GHz
- 512 MB of RAM memory
- 510 MB of free hard drive space (for installation purposes)



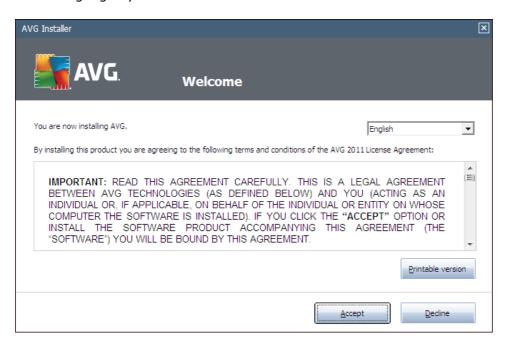
3. AVG Installation Process

To download the installation file of **AVG Anti-Virus Free Edition 2011** visit the **AVG Free website** (http://free.avg.com/cz-en/homepage) and follow the **AVG Anti-Virus Free Edition 2011** download link.

Once you have downloaded and saved the installation file on your hard disk, you can launch the installation process. The installation is a sequence of dialog windows with a brief description of what do at each step. In the following, we offer an explanation for each dialog window:

3.1. Welcome

The installation process starts with the **Welcome** dialog window. Here you select the language used for the installation process, and the default language of AVG user interface. In the upper section of the dialog window find the drop-down menu with the list of languages you can chose from:



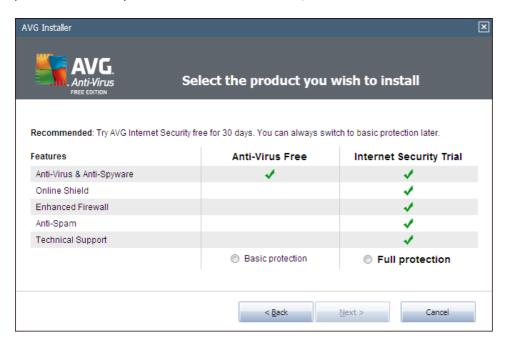
Attention: Here, you are selecting the language for the installation process. The language you select will be installed as the default language for AVG user interface, together with English that is installed automatically. If you want to have installed other additional languages for the user interface, please define them within the setup dialog **Custom Options**.

Further, the dialog provides the full wording of the AVG license agreement. Please read it carefully. To confirm that you have read, understood and accept the agreement press the **Accept** button. If you do not agree with the license agreement press the **Decline** button, and the installation process will be terminated immediately.



3.2. Select the product you wish to install

Within the **Select the product you wish to install** dialog you should decide which product version you would like to download, and install:



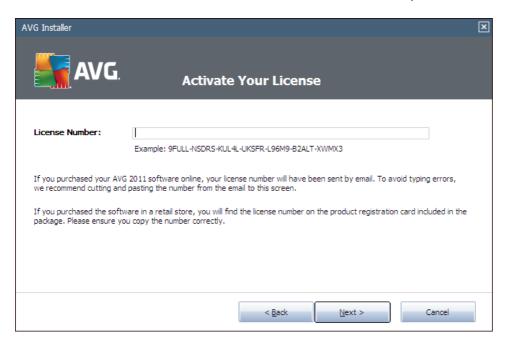
A clearly arranged chart provides a comparison of the two offered options:

- AVG Anti-Virus Free Edition 2011 this product version is provided free of charge, and for an unlimited period of time. However, the free version includes only few security functions available within the professional AVG edition, and offers only the basic protection level. However, while using AVG Anti-Virus Free Edition 2011 you may find out that the security level provided for free is not sufficient for you, and that you would prefer the full and professional AVG functionality. In this case, please visit the AVG website (http://www.avg.com/) to find information on upgrade to one of the professional AVG 10 editions.
- AVG Internet Security Trial the trial version includes all security functions available within AVG 10 paid editions, in full extent. We offer you a unique opportunity to try out the comprehensive and professional level security for your computer. However, the trial version expires in 30 days! Then you can decide whether you wish to buy the full version of AVG 10.



3.3. Activate your AVG license

In the **Activate Your License** dialog you have to fill in your licence number. However, for the free edition the **License Number** text field is already filled in.



Press the **Next** button to continue the installation process.

3.4. Select type of installation





The **Select type of installation** dialog offers the choice of two installation options: **Quick Install** and **Custom Install**.

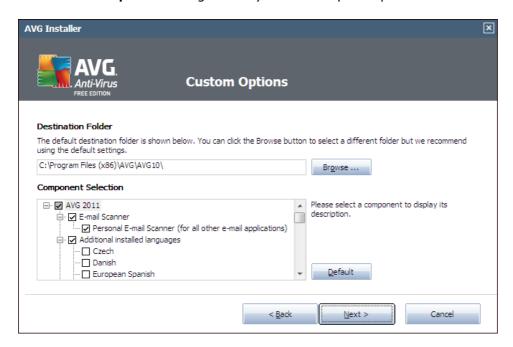
For most users, it is highly recommended to keep to the standard **Quick Install** that installs AVG in fully automatic mode with settings predefined by the program vendor. This configuration provides maximum security combined with the optimal use of resources. In the future, if the need arises to change the configuration, you will always have the possibility to do so directly in the AVG application. If you have selected the **Quick Install** option, press the **Next** button to proceed to the following **Install the AVG Security Toolbar** dialog.

Custom Install should only be used by experienced users who have a valid reason to install AVG with non-standard settings; e.g. to fit specific system requirements. Having selected this option, press the **Next** button to proceed to the **Custom Options** dialog.

In the right-hand section of the dialog you can find the check box related to **AVG gadget** (supported in Windows Vista/Windows 7). If you wish to have installed this gadget, mark the respective checkbox. **AVG gadget** will then be accessible from the Windows Sidebar providing you an immediate access to the most important features of your **AVG Anti-Virus Free Edition 2011**, i.e. <u>scanning</u> and <u>updating</u>.

3.5. Custom options

The **Custom Options** dialog allows you to set up two parameters of the installation:



Destination Folder

Within the **Destination Folder** section of the dialog you are supposed to specify the



location where **AVG Anti-Virus Free Edition 2011** should be installed. By default, AVG will be installed to the program files folder located on drive C:. If you want to change this location, use the **Browse** button to display the drive structure, and select the respective folder.

Component Selection

The *Component Selection* section provides an overview of all **AVG Anti-Virus Free Edition 2011** components that can be installed. If the default settings do not suit you, you can remove/add specific components.

However, you can only select from components that are included in your AVG Free edition!

Highlight any item in the *Component Selection* list, and a brief description of the respective component will be displayed on the right side of this section. For detailed information on each component's functionality please consult the *Components Overview* chapter of this documentation. To revert to the default configuration preset by the software vendor use the *Default* button.

Press the **Next** button to continue.

3.6. Install the AVG Security Toolbar



In the **Install the AVG Security Toolbar** dialog, decide whether you want to install the **AVG Security Toolbar**. If you do not change the default settings, this component will be installed automatically into your Internet browser (currently supported browsers are Microsoft Internet Explorer v. 6.0 or higher, and Mozilla Firefox v. 3.0 or higher) and to provide you with comprehensive online protection while surfing the

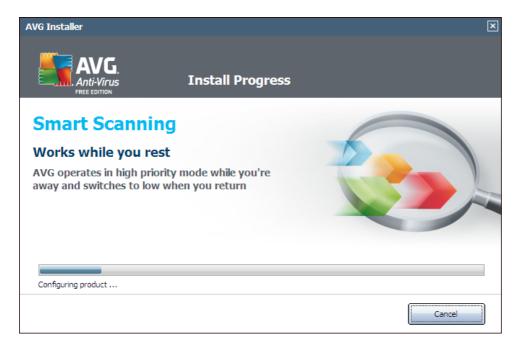


Internet.

Also, you have the option to decide whether you want to chose AVG Secure Search as your default search provider. If so, keep the respective check box marked.

3.7. Install progress

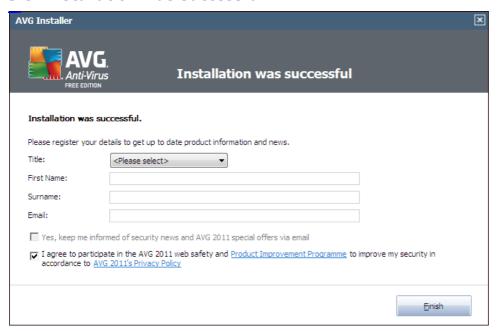
The *Install Progress* dialog shows the progress of the installation process, and does not require any intervention:



After the installation process is finished you will be redirected to the next dialog automatically.



3.8. Installation was successful



The *Installation was successful* dialog confirms that your **AVG Anti-Virus Free Edition 2011** has been fully installed and configured.

In this dialog please provide your contact information so that you can receive all product related information and news. Below the registration form you will find the following two options:

- Yes, keep me informed of security news and AVG 2011 special offers via e-mail mark the checkbox to state you would like to be informed about what is new in the Internet security sphere, and would like to receive information on AVG product special offers, improvements and upgrades, etc.
- I agree to participate in the AVG 2011 web safety and Product Improvement Programme ... mark this checkbox to agree you want to participate in the Product Improvement Programme (for details see chapter AVG Advanced Settings / Product Improvement Programme) that collects anonymous information on detected threats in order to increase the overall Internet security level.

This is the last dialog of the installation process. Click the *Finish* button to finalize and complete the **AVG Anti-Virus Free Edition 2011** installation on your computer.



4. After Installation

4.1. Product registration

AVG Anti-Virus Free Edition 2011 does not necessarily require registration. However, it is recommended to register so that you can use the <u>discussion forum</u> of **AVG Anti-Virus Free Edition 2011**, or rather in case you want to ask a question or react to one. For reading only the forum is accessible without registration.

To register, fill in the online registration form on the **Register** tab of the <u>discussion</u> forum. Then you will receive the activation code via email sent to the provided e-mail address, and you can log in to the forum.

4.2. Access to user interface

The AVG Free User Interface is accessible in several ways:

- from the menu Start/Programs/AVG 2011/AVG User Interface
- double-click the AVG icon on the desktop
- double-click the **system tray AVG icon** to open the main user interface, or right-click the AVG icon to open a context menu with respective options
- from AVG Security Toolbar via option Launch AVG
- double click the status line located in the bottom section of the AVG gadget (
 if installed; supported on Windows Vista/ Windows 7)

4.3. Scanning of the whole computer

There is a potential risk that a computer virus has been transmitted to your computer prior to **AVG Anti-Virus Free Edition 2011** installation. For this reason you should run a **Scan of the whole computer** to make sure there are no infections on your PC.

For instructions on running a **Scan of the whole computer** please consult the chapter **AVG Scanning**.

4.4. Eicar test

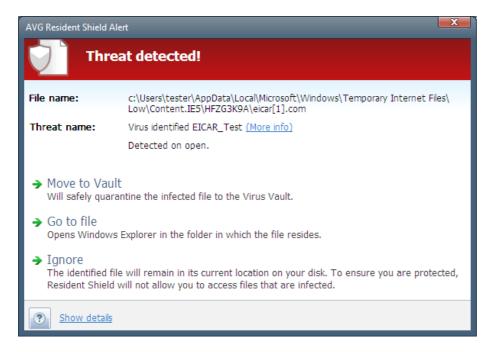
To confirm that **AVG Anti-Virus Free Edition 2011** has been installed correctly you can perform the EICAR test.

The EICAR test is a standard and absolutely safe method used to test antivirus system functioning. It is safe to pass around, because it is not an actual virus, and does not include any fragments of viral code. Most products react to it as if it were a virus (though they typically report it with an obvious name, such as "EICAR-AV-Test"). You can download the EICAR virus from the EICAR website at www.eicar.com, and you will



also find all necessary EICAR test information there.

Try to download the *eicar.com* file, and save it on your local disk. **AVG Anti-Virus Free Edition 2011** will react by displaying a warning notice just as you try to save the test file to your local disk (*for instance with Internet Explorer*), or as you try to open the downloaded file (*for instance with Mozilla Firefox*). The displayed notice will be in the form of *Resident Shield warning* - the warning proves your **AVG Anti-Virus Free Edition 2011** is installed properly:



If **AVG Anti-Virus Free Edition 2011** fails to identify the EICAR test file as a virus, you should check the program configuration again!

4.5. AVG default configuration

The default configuration (i.e. how the application is set up right after installation) of **AVG Anti-Virus Free Edition 2011** is set up by the software vendor so that all components and functions are tuned up to achieve optimum performance.

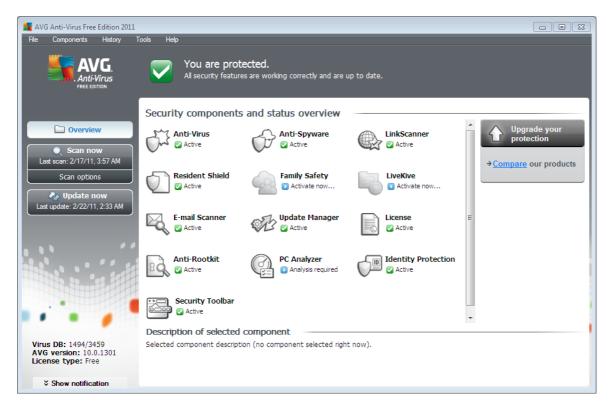
Unless you have a real reason to do so, do not change the AVG configuration! Changes to settings should only be performed by an experienced user.

Some minor editing of **AVG Free components** settings is accessible directly from the specific component user interface. If you feel you need to change the **AVG Anti-Virus Free Edition 2011** configuration to better suit your your needs, go to **AVG Advanced Settings**: select the system menu item **Tools/Advanced settings** and edit the **AVG Anti-Virus Free Edition 2011** configuration in the newly opened **AVG Advanced Settings** dialog.



5. AVG User Interface

AVG Anti-Virus Free Edition 2011 open with the main window:



The main window is divided into several sections:

- **System Menu** (top system line in the window) is the standard navigation that allows you to access all AVG Free components, services, and features <u>details</u> >>
- **Security Status Info** (upper section of the window) provides you with information on the current status of your AVG Free program <u>details</u> >>
- Quick Links (left section of the window) allow you to quickly access the most important and most frequently used AVG Free tasks - details >>
- Components Overview (central section of the window) offer an overview of all installed AVG Free components details >>
- **Statistics** (left bottom section of the window) provide you with all statistical data regarding the programs operation details >>
- **System Tray Icon** (bottom right corner of the monitor, on the system tray) indicates the AVG Free current status <u>details</u> >>
- AVG gadget (Windows sidebar, supported in Windows Vista/7) allows quick access to AVG Free scanning and update - details >>



Upgrade your protection (right section of the window) opens the AVG Free website (http://free.avg.com/cz-en/homepage) at page comparing your current protection of your computer provided by AVG Anti-Virus Free Edition 2011 and the possibility of a full professional protection secured by AVG paid products. From the web page you can go and purchase the selected AVG product.

5.1. System Menu

The **System menu** is the standard navigation used in all Windows applications. It is located horizontally in the very top part of the **AVG Anti-Virus Free Edition 2011** main window. Use the system menu to access specific **AVG Anti-Virus Free Edition 2011** components, feature, and services.

The system menu is divided into five main sections:

5.1.1. File

• *Exit* - closes the **AVG Anti-Virus Free Edition 2011**'s user interface. However, the AVG application will continue running in the background and your computer will still be protected!

5.1.2. Components

The **Components** item of the system menu includes links to all installed AVG components, opening their default dialog page in the user interface:

- **System overview** switch to the default user interface dialog with the overview of all installed components and their status
- **Anti-Virus** ensures that your computer is protected from viruses trying to enter your computer <u>details >></u>
- Anti-Spyware ensures that your computer is protected from spyware and adware - details >>
- E-mail Scanner checks all incoming and outgoing mail for viruses details >>
- Resident Shield runs in the background and scans files as they are copied, opened or saved - details >>
- Link Scanner checks the search results displayed in your internet browser details >>
- **Update Manager** controls all AVG updates <u>details >></u>
- Family Safety helps control your children online activities and protect them from inappropriate web content details >>
- LiveKive backs up your data online and allows you to share them details >>
- License displays the license number, type and expiration date details >>



- Anti-Rootkit detects programs and technologies trying to camouflage malware
 details >>
- PC Analyzer analyzer provides information about your computer status details >>
- *Identity Protection* anti-malware component focused on preventing identity thieves from stealing your personal digital valuables details >>
- Security Toolbar offers direct access to selected AVG functions directly from your internet browser interface - details >>

5.1.3. History

- Scan results switches to the AVG testing interface, specifically to the Scan Results Overview dialog
- Resident Shield Detection open a dialog with an overview of threats detected by Resident Shield
- *E-mail Scanner Detection* open a dialog with an overview of mail messages attachments detected as dangerous by the *E-mail Scanner* component
- Virus Vault opens the interface of the quarantine space (Virus Vault) to where AVG removes all detected infections that cannot be healed automatically for some reason. Inside this quarantine the infected files are isolated and your computer's security is guaranteed, and at the same time the infected files are stored for possible future repair.
- **Event History Log** opens the history log interface with an overview of all logged **AVG Anti-Virus Free Edition 2011** actions.

5.1.4. Tools

- **Scan computer** switches to the <u>AVG scanning interface</u> and launches a scan of the whole computer
- Scan selected folder switches to the <u>AVG scanning interface</u> and allows you
 to define within the tree structure of your computer which files and folders
 should be scanned
- Scan file allows you to run an on-demand test over a single file selected from the tree structure of your disk
- Update automatically launches the update process of AVG Anti-Virus Free Edition 2011
- **Update from directory** runs the update process from the update files located in a specified folder on your local disk. However, this option is only recommended as an emergency, e.g. in situations where there is no connection to the Internet (for example, your computer is infected and disconnected from the Internet; your computer is connected to a network with no access



- to the Internet, etc.). In the newly opened window select the folder where you have previously placed the update file, and launch the update process.
 - Advanced settings opens the AVG advanced settings dialog where you
 can edit the AVG Anti-Virus Free Edition 2011 configuration. Generally, it is
 recommended to keep the default settings of the application as defined by the
 software vendor.

5.1.5. Help

- Contents opens the AVG help files.
- **Get Help Online** opens **AVG Free website** (http://free.avg.com/cz-en/homepage) at the <u>customer support center page</u>.
- Your AVG Web opens AVG Free website (http://free.avg.com/cz-en/homepage).
- **About Viruses and Threats** opens the **AVG Free website** (http://free.avg. com/cz-en/homepage) at the <u>page dedicated to threats and viruses</u> where you can look up detailed information on the identified virus.
- **Buy now** opens the AVG website (http://www.avg.com/) at the online store where you can purchase a copy of AVG.
- Activate opens the Activate AVG dialog with the data entered during the
 installation process. Within this dialog you can enter your new license number (
 e.g. when upgrading to a paid AVG product) to replace the AVG Free license
 number.
- Register AVG Anti-Virus Free Edition 2011 opens AVG Free website (http://free.avg.com/cz-en/homepage) at the registration page where you can register to get the full access to a new web-based discussion forum where you can receive technical support.
- Premium Support opens you browser and takes you to <u>AVG Support Center</u>
 page, where you can select your product type to view all support options
 available for you.
- About AVG opens the Information dialog with five tabs providing data on program name, program and virus database version, system info, license agreement, and contact information of AVG Technologies CZ.

5.2. Security Status Info

The **Security Status Info** section is located in the upper part of the AVG Free main window. Within this section you will always find information on the current security status of your **AVG Anti-Virus Free Edition 2011**. Please see an overview of icons possibly depicted in this section, and their meaning:



- The green icon indicates that your AVG Free is fully functional. Your computer is completely protected, up to date and all installed components are working properly.

- The orange icon warns that one or more components are incorrectly configured and you should pay attention to their properties/settings. There is no critical problem in AVG and you have probably decided to switch some component off for some reason. You are still protected by AVG. However, please pay attention to the problem component's settings! Its name will be provided in the **Security Status Info** section.

This icon also appears if for some reason you have decided to <u>ignore a component's error status</u> (the "Ignore component state" option is available from the context menu opened by a right-click over the respective component's icon in the component overview of the AVG Free main window). You may need to use this option in a specific situation but it is strictly recommended to switch off the "Ignore component state" option as soon as possible.

- The red icon indicates that AVG Free is in critical status! One or more components does not work properly and AVG Free cannot protect your computer. Please pay immediate attention to fixing the reported problem.

In case AVG Free is not set to the optimum performance, a new button named Fix (alternatively Fix all if the problem involves more than one component) appears next to the security status information. Press the button to launch an automatic process of program checkout and configuration. This is an easy way to set AVG Free to the optimum performance and reach the maximum security level!

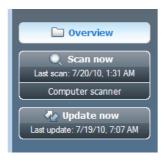
It is strongly recommended that you pay attention to **Security Status Info** and in case the report indicates any problem, go ahead and try to solve it immediately. Otherwise your computer is at risk!

Note: AVG Free status information can also be obtained at any moment from the system tray icon.



5.3. Quick Links

Quick links (in the left section of the AVG User Interface) allow you to immediately access the most important and most frequently used AVG Free features:



- Overview use this link to switch from any currently opened AVG Free interface to the default one with an overview of all installed components - see chapter Components Overview >>
- **Scan now** by default, the button provides information (*scan type*, *date of last launch*) of the last scan launched. You can either execute the **Scan now** command to launch the same scan again, or follow the **Computer scanner** link to open the AVG Free scanning interface where you can run scans, schedule scans, or edit their parameters see chapter **AVG Scanning** >>
- Update now the link provides the date of the last launch of the update process. Press the button to open the updating interface, and run AVG update process immediately - see chapter AVG Updates >>

These links are accessible from the user interface at all times. Once you use a quick link to run a specific process, the GUI will switch to a new dialog but the quick links are still available. Moreover, the running process is further graphically depicted.

5.4. Components Overview

The **Components Overview** section is located in the central part of the <u>AVG User Interface</u>. The section is divided into two parts:

- Overview of all installed components consisting of a panel with the component's icon and the information of whether the respective component is active or inactive
- Description of a selected component

Within the **AVG Anti-Virus Free Edition 2011** the *Components Overview* section contains information on the following components:

- Anti-Virus ensures that your computer is protected from viruses trying to enter your computer - details >>
- Anti-Spyware ensures that your computer is protected from spyware and



adware - details >>

- Link Scanner checks the search results displayed in your internet browser details >>
- E-mail Scanner checks all incoming and outgoing mail for viruses details >>
- Resident Shield runs in the background and scans files as they are copied, opened or saved - <u>details >></u>
- Family Safety helps monitor your children online activities, and protect them from inappropriate websites content details >>
- LiveKive provides automatic back up to your data online details >>
- **Update Manager** controls all AVG Free updates <u>details >></u>
- License displays the license number, type and expiration date details >>
- Anti-Rootkit detects programs and technologies trying to camouflage malware
 details >>
- **PC Analyzer** provides information about your computer status details >>
- **Identity Protection** anti-malware component focused on preventing identity thieves from stealing your personal digital valuables details >>
- **Security Toolbar** offers direct access to selected AVG functions directly from your internet browser interface <u>details</u> >>

Single-click any component's icon to highlight it within the components overview. At the same time, the component's basic functionality description appears in the bottom part of the user interface. Double-click the icon to open the components own interface with a list of basic statistical data.

Right-click you mouse over a component's icon to expand a context menu: besides opening the component's graphic interface you can also select to **Ignore component state**. Select this option to express you are aware of the <u>component's error state</u> but for some reason you wish to keep your AVG Free so and you do not want to be warned by the <u>system tray icon</u>.

5.5. Statistics

The **Statistics** section is located in the left bottom part of the **AVG User Interface**. It offers a list of information regarding the program's operation:

- Virus DB informs you about the currently installed version of the virus database
- AVG version informs you about the AVG Free version installed (the number



is in the form of 10.0.xxxx, where 10.0 is the product line version, and xxxx stands for the number of the build)

• **License type** - informs that you have currently installed the free version of AVG

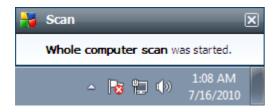
5.6. System Tray Icon

System Tray Icon (on your Windows taskbar) indicates the current status of your **AVG Anti-Virus Free Edition 2011**. It is visible at all times on your system tray, no matter whether your AVG Free main window is opened or closed:



If in full color , the **System Tray Icon** indicates that all AVG Free components are active and fully functional. Also, AVG Free system tray icon can be displayed in full color if AVG Free is in error state but you are fully aware of this situation and you have deliberately decided to **Ignore the component state**. An icon with an exclamation mark indicates a problem (inactive component, error status, etc.). Double-click the **System Tray Icon** to open the main window and edit a component.

The system tray icon further informs on current AVG Free activities and possible status changes in the program (e.g. automatic launch of a scheduled scan or update, a component's status change, error status occurrence, ...) via a pop-up window opened from the AVG Free system tray icon:



The **System Tray Icon** can also be used as a quick link to access the AVG Free main window at any time - double click on the icon. By right-click on the **System Tray Icon** you open a brief context menu with the following options:

- Open AVG User Interface click to open the AVG User Interface
- **Scans** click to open the context menu of <u>predefined scans</u> (Whole Computer scan, Scan Specific Files or Folders, Anti-Rootkit scan) and select the required scan, it will be launched immediately



- **Running scans** this item is displays only in case a scan is currently running on your computer. For this scan you can then set its priority, alternatively stop or pause the running scan. Further, the following actions are accessible: Set priority for all scans, Pause all scans or Stop all scans.
- Run PC Analyzer launches the <u>PC Analyzer</u> component
- **Update now** launches an immediate <u>update</u>
- **Help** opens the help file on the start page

5.7. AVG gadget

AVG gadget displays on the Windows desktop (Windows Sidebar). This application is only supported in operating systems Windows Vista and Windows 7. **AVG** gadget offers an immediate access to the most important **AVG** Anti-Virus Free Edition 2011 functionality, i.e. scanning and updating:



AVG gadget provides the following quick access options:

• Scan now - click the Scan now link to start the whole computer scan directly. You can watch the progress of the scanning process in the alternated user interface of the gadget. A brief statistics overview provides information on the number of scanned objects, threats detected, and threats healed. During the scan you can always pause , or stop the scanning process. For detailed data related to the scan results please consult the standard Scan results overview dialog that can be opened directly from the gadget via the Show details option (the respective scan results will be listed under Sidebar gadget scan).





• **Update now** - click the **Update now** link to launch the AVG Free update directly from within the gadget:



• Twitter link - opens a new AVG gadget interface providing an overview of the latest AVG feeds posted at the Twitter. Follow the View all the AVG Twitter feeds link to open your Internet browser in a new window, and you will be redirected directly to the Twitter website, specifically to the page devoted to AVG related news:



- Facebook link opens your Internet browser on the Facebook website, specifically on the AVG community page
- PC Analyzer open the user interface in the PC Analyzer component
- Search box type in a keyword and get the search results immediately in a



newly opened window with your default web browser



6. AVG Components

6.1. Anti-Virus

6.1.1. Anti-Virus Principles

The antivirus software's scanning engine scans all files and file activity (opening/ closing files, etc.) for known viruses. Any detected virus will be blocked from taking any action and will then be cleaned or quarantined. Most antivirus software also uses heuristic scanning, where files are scanned for typical virus characteristics, so called viral signatures. This means that the antivirus scanner can detect a new, unknown virus, if the new virus contains some typical characteristics of existing viruses.

The important feature of antivirus protection is that no known virus can run on the computer!

Where just a single technology might fall short of detecting or identifying a virus, **Anti-Virus** combines several technologies to ensure that your computer is protected from viruses:

- Scanning searching for character strings that are characteristic of a given virus
- Heuristic analysis dynamic emulation of the scanned object's instructions in a virtual computer environment
- Generic detection detection of instructions characteristic of the given virus/ group of viruses

AVG is also able to analyze and detect executable applications or DLL libraries that could be potentially unwanted within the system. We call such threats Potentially Unwanted Programs (various kinds of spyware, adware etc.). Furthermore, AVG scans your system registry for suspicious entries, temporary Internet files and tracking cookies, and allows you to treat all potentially harmful items in the same way as any other infection.



6.1.2. Anti-Virus Interface



The **Anti-Virus** component's interface provides some basic information on the component's functionality, information on the component's current status, and a brief overview of **Anti-Virus** statistics:

- **Number of definitions** number provides the count of viruses defined in the up-to-date version of the virus database
- **Database release** specifies when and at what time the virus database was last updated
- **Database version** defines the number of the currently installed virus database version; and this number increases with every virus base update

There is just one operating button available within this component's interface (**Back**) - press the button to return to the default <u>AVG user interface</u> (components overview).

6.2. Anti-Spyware

6.2.1. Anti-Spyware Principles

Spyware is usually defined as a type of malware, i.e. software, that gathers information from a user's computer without the user's knowledge or consent. Some spyware applications may also be installed on purpose and often contain advertisements, window pop-ups or different types of unpleasant software.



Currently, the most common source of infection is websites with potentially dangerous content. Other methods of transmission, such as via e-mail or transmission by worms and viruses are also prevalent. The most important protection is to use an always-on background scanner, **Anti-Spyware**, that works like a resident shield and scans your applications in the background as you run them.

There is also the potential risk that malware has been transmitted to your computer prior to AVG installation, or that you have neglected to keep your **AVG Anti-Virus**Free Edition 2011 up-to-date with the latest database and program updates. For this reason, AVG allows you to fully scan your computer for malware/spyware using the scanning feature. It also detects sleeping and non-active malware, i.e. malware that has been downloaded but not yet activated.

6.2.2. Anti-Spyware Interface



The **Anti-Spyware** component's interface provides a brief overview on the component's functionality, information on the component's current status, and some **Anti-Spyware** statistics:

- **Spyware definitions** number provides the count of spyware samples defined in the latest spyware database version
- **Database release** specifies when and at what time the spyware database was updated
- **Database version** defines the number of the latest spyware database version; and this number increases with every virus base update

There is just one operating button available within this component's interface (**Back**) - press the button to return to the default <u>AVG user interface</u> (components overview).



6.3. Link Scanner

6.3.1. Link Scanner Principles

TinkScanner protects you from the increasing number of 'here today, gone tomorrow' threats on the web. These threats can be hidden on any type of website, from governments to big, well-known brands to small businesses, and they rarely stick around on those sites for more than 24 hours. **LinkScanner** protects you by analyzing the web pages behind all the links on any web page you're viewing and making sure they're safe at the only time that matters – when you're about to click that link.

The **LinkScanner** technology consists of two features, **Search-Shield** and **Surf-Shield**:

- **Search-Shield** contains list of websites (*URL addresses*) which are known to be dangerous. When searching with Google, Yahoo!, WebHledani, Yandex, Baidu, Bing, AOL, AltaVista, EarthLink, Ask, and Seznam, all results of the search are checked according to this list and a verdict icon is shown (for Yahoo! search results only "exploited website" verdict icons are shown).
- Surf-Shield scans the contents of the websites you are visiting, regardless of the websites address. Even if some website is not detected by Search-Shield (e.g. when a new malicious website is created, or when a previously clean website now contains some malware), it will be detected and blocked by Surf-Shield once you try to visit it.

Note: LinkScanner is not intended for server platforms!

6.3.2. Link Scanner Interface

The **LinkScanner** component interface provides a brief description of the component's functionality and information on its current status. Further, you can find the information on the latest **LinkScanner** database version number (LinkScanner version).





LinkScanner Settings

In the bottom part of the dialog you can edit several options:

- Enable Search-Shield (on by default): advisory notifying icons on searches performed with Google, Yahoo!, WebHledani, Yandex, Baidu, Bing, AOL, AltaVista, EarthLink, Ask, or Seznam: having checked ahead the content of sites returned by the search engine.
- Enable Surf-Shield (on by default): active (real-time) protection against exploitive sites as they are accessed. Known malicious site connections and their exploitive content is blocked as they are accessed by the user via a web browser (or any other application that uses HTTP).

6.3.3. Search-Shield

When searching Internet with the **Search-Shield** on, all search results returned from the most popular search engines (Google, Yahoo!, WebHledani, Yandex, Baidu, Bing, AOL, AltaVista, EarthLink, Ask, and Seznam) are evaluated for dangerous or suspicious links. By checking these links and marking the bad links, the AVG Link Scanner warns you before you click on dangerous or suspicious links, so you can ensure you only go to safe websites.

While a link is being evaluated on the search results page, you will see a graphic sign next to the link informing that the link verification is in progress. When the evaluation is complete, the respective informative icon will be displayed:

🏋 The linked page is safe (with Yahoo! search engine this icon will not be



displayed!).

The linked page does not contain threats but is somewhat suspicious (questionable in origin or motive, therefore not recommended for e-shopping etc.).

The linked page can be either safe itself, but containing further links to positively dangerous pages; or suspicious in code, though not directly employing any threats at the moment.

The linked page contains active threats! For your own safety, you will not be allowed to visit this page.

igwedge The linked page is not accessible, and so could not be scanned.

Hovering over an individual rating icon will display details about the particular link in question. Information include additional details of the threat (if any), the IP address of the link and when the page was scanned by AVG:

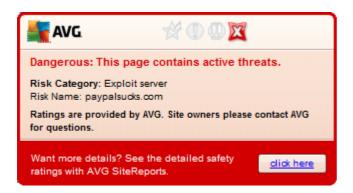


6.3.4. Surf-Shield

This powerful protection will block malicious content of any webpage you try to open, and prevent it from being downloaded to your computer. With this feature enabled, clicking a link or typing in a URL to a dangerous site will automatically block you from opening the web page thus protecting you from inadvertently being infected. It is important to remember that exploited web pages can infect your computer simply by visiting the affected site, for this reason when you request a dangerous webpage containing exploits or other serious threats, the **AVG Link Scanner** will not allow your browser to display it.

If you do encounter a malicious web site, within your web browser the **AVG Link Scanner** will warn you with a screen similar to:





Entering such web site is highly risky and it cannot be recommended!

6.4. Resident Shield

6.4.1. Resident Shield Principles

The **Resident Shield** component gives your computer continuous protection. It scans every single file that is being opened, saved, or copied, and guards the system areas of the computer. When **Resident Shield** discovers a virus in a file that is accessed, it stops the operation currently being performed and does not allow the virus to activate itself. Normally, you do not even notice the process, as it runs "in the background", and you only get notified when threats are found; at the same time, **Resident Shield** blocks activation of the threat and removes it. **Resident Shield** is being loaded in the memory of your computer during system startup.

What the Resident Shield can do:

- Scan for specific kinds of possible threats
- Scan removable media (flash disk etc.)
- Scan files with specific extensions or without extensions at all
- Allow exceptions from scanning specific files or folders that should never be scanned

Warning: Resident Shield is loaded in the memory of your computer during startup, and it is vital that you keep it switched on at all times!



6.4.2. Resident Shield Interface



Besides an overview of the **Resident Shield** functionality, and the information on the component's status, the **Resident Shield** interface offers some statistic data as well:

- **Resident Shield has been running for** provides the time since the latest component's launch
- Threats detected and blocked number of detected infections that were prevented from being run/opened (if needed, this value can be reset; e.g. for statistic purposes Reset value)

Resident Shield settings

In the bottom part of the dialog window you will find the section called **Resident Shield settings** where you can edit some basic settings of the component's functionality (detailed configuration, as with all other components, is available via the Tools/Advanced settings item of the system menu).

The **Resident Shield is active** option allows you to easily switch on/off resident protection. By default, the function is on. With resident protection on you can further decide how the possibly detected infections should be treated (removed):

- o either automatically (Remove all threats automatically)
- o or only after the user's approval (Ask me before removing threats)

This choice has no impact on the security level, and it only reflects your preferences.



In both cases, you can still select whether you want to **Scan for tracking cookies**. In specific cases you can switch this option on to achieve maximum security levels, however it is switched off by default. (cookies = parcels of text sent by a server to a web browser and then sent back unchanged by the browser each time it accesses that server. HTTP cookies are used for authenticating, tracking, and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts).

Please note: The software vendor has set up all AVG components to give optimum performance. Unless you have a real reason to do so, do not change the AVG configuration. Any changes to settings should only be performed by an experienced user. If you need to change AVG configuration, select the system menu item **Tools / Advanced settings** and edit the AVG configuration in the newly opened AVG Advanced Settings dialog.

Control buttons

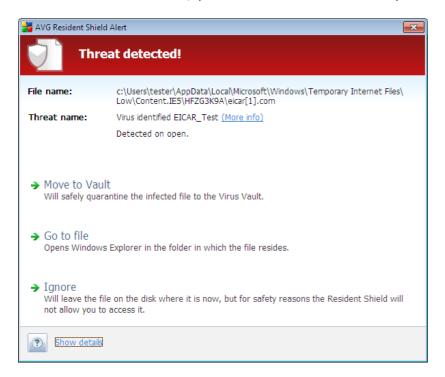
The control buttons available within the **Resident Shield** interface are as follows:

- Manage exceptions opens the Resident Shield Excluded Items dialog
 where you can define folders and files that should be left out from the
 Resident Shield scanning
- Save changes press this button to save and apply any changes made in this dialog
- **Cancel** press this button to return to the default **AVG user interface** (components overview)



6.4.3. Resident Shield Detection

Resident Shield scans files as they are copied, opened or saved. When a virus or any kind of threat is detected, you will be warned immediately via the following dialog:



Within this warning dialog you will find data on the file that was detected and assigned as infected (*File name*), the name of the recognized infection (*Threat name*), and a link to the *Virus encyclopedia* where you can find detailed information on the detected infection, if known (*More info*).

Further, you have to decide what action should be taken now - the following options are available:

Please note that, upon specific conditions (what kind of file is infected, and where it is located), not all of the options are always available!

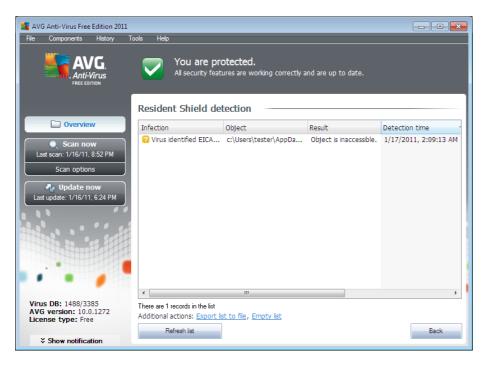
- **Heal** (this is the recommended option) this button only appears if the detected infection can be healed. Then, it removes it from the file, and restores the file to the original state. If the file itself is a virus, use this function to delete it (i.e. removed to the **Virus Vault**)
- Move to Vault (this is the recommended option) the virus will be moved to AVG Virus Vault
- **Go to file** this option redirects you to the exact location of the suspicious object (opens new Windows Explorer window)
- Ignore the infected object remains in its original location but cannot be accessed!



Note: It may happen that the size of the detected object exceeds the free space limit in Virus Vault. If so, a warning message pops up informing you about the issue as you try to move the infected object to Virus Vault. However, the Virus Vault size can be edited. It is defined as an adjustable percentage of the real size of your hard disk. To increase the size of your Virus Vault, go to the Virus Vault dialog within the AVG Advanced Settings, via the 'Limit Virus Vault size' option.

In the bottom section of the dialog you can find the link **Show details** - click it to open a pop-up window with detailed information on the process running while the infection was detected, and the process' identification.

The entire overview of all threats detected by **Resident Shield** can be found in the **Resident Shield detection** dialog accessible from system menu option **History** / **Resident Shield detection**:



The **Resident Shield detection** offers an overview of objects that were detected by the **Resident Shield**, evaluated as dangerous and either cured or moved to the **Virus Vault**. For each detected object the following information is provided:

- Infection- description (possibly even name) of the detected object
- Object object location
- Result action performed with the detected object
- Detection time date and time the object was detected
- Object Type type of the detected object



• **Process** - what action was performed to call out the potentially dangerous object so that it could be detected

In the bottom part of the dialog, under the list, you will find information on total number of detected objects listed above. Further you can export the entire list of detected objects in a file (*Export list to file*) and delete all entries on detected objects (*Empty list*). The *Refresh list* button will update the list of finding detected by *Resident Shield*. The *Back* button switches you back to the default *AVG user interface* (components overview).

6.5. Family Safety

AVG Family Safety helps you protect your children from inappropriate websites, media content and online searches, and provides you with reports regarding their online activity. You can set the appropriate level of protection for each of your children and monitor them separately via unique logins.

The component is active only when the **AVG Family Safety** product is installed your machine. If you do not have the **AVG Family Safety** product installed, click the respective icon within the **AVG Anti-Virus Free Edition 2011** user interface and you will be redirected to the product web site where you can find all details required.

6.6. AVG LiveKive

The **LiveKive** component is a standalone AVG product, and an optional part of your AVG installation. **LiveKive** automatically backs up all your files, photos and music to one safe place, allowing you to share them with family and friends and access them from any web-enabled device, including iPhones and Android devices.

The component is dedicated to online data backup on secured servers. **LiveKive** features include:

- Safety measure in case your computer and/or harddisk gets corrupted
- Access to your data from any device connected to the Internet
- · Easy organizing of your data
- Sharing with anyone you authorize

The component is active only when the **AVG LiveKive** product is installed on your machine. If you do not have the **AVG LiveKive** product installed, click the respective icon within the **AVG Anti-Virus Free Edition 2011** user interface and you will be redirected to the product web site where you can find all details required.

6.7. E-mail Scanner

One of the most common sources of viruses and trojans is via e-mail. Phishing and spam make e-mail an even greater source of risks. Free e-mail accounts are more likely to receive such malicious e-mails (as they rarely employ anti-spam technology), and



home users rely quite heavily on such e-mail. Also home users, surfing unknown sites and filling in online forms with personal data (*such as their e-mail address*) increase exposure to attacks via e-mail. Companies usually use corporate e-mail accounts and employ anti-spam filters etc, to reduce the risk.

6.7.1. E-mail Scanner Principles

Personal E-mail Scanner scans incoming/outgoing e-mails automatically. You can use it with e-mail clients that do not have their own plug-in in AVG (but can be also used to scan e-mail messages for e-mail clients that AVG supports with a specific plug-in, i. e. Microsoft Outlook, and The Bat). Primarily, it is to be used with e-mail applications like MS Outlook Express, Mozilla Thunderbird, Incredimail, etc.

During AVG <u>installation</u> AVG there are automatic servers created for control of incoming and outgoing e-mails. Using these two servers e-mails are automatically checked on ports 110, 25, and 143 (*standard ports for sending/receiving e-mails*).

E-mail Scanner works as an interface between e-mail client and e-mail servers on the Internet.

- Incoming mail: While receiving a message from the server, the E-mail Scanner component tests it for viruses, removes infected attachments, and adds certification. When detected, viruses are quarantined in Virus Vault immediately. Then the message is passed to the e-mail client.
- Outgoing mail: Message is sent from e-mail client to E-mail Scanner; it tests the message and its attachments for viruses and then sends the message to the SMTP server (scanning of outgoing e-mails is disabled by default, and can be set up manually).

Note: AVG E-mail Scanner is not intended for server platforms!



6.7.2. E-mail Scanner Interface



In the **E-mail Scanner** component's dialog you can find a brief text describing the component's functionality, information on its current status, and the following statistics:

- Total e-mails scanned how many e-mail messages were scanned since the **E-mail Scanner** was last launched (if needed, this value can be reset; e.g. for statistic purposes Reset value)
- Threats found and blocked provides the number of infections detected in e-mail messages since the last **E-mail Scanner** launch
- Installed e-mail protection information about a specific e-mail protection plug-in referring to your default installed e-mail client

E-mail Scanner settings

In the bottom part of the dialog you can find the section named **E-mail Scanner settings** where you can edit some elementary features of the component's functionality:

- **Scan incoming messages** check the item to specify that all e-mails deliver ed to your account should be scanned for viruses. By default, this item is on, and it is recommended not to change this setting!
- **Scan outgoing messages** check the item to confirm all e-mail sent from your account should be scanned for viruses. By default, this item is off.



• Display notification window while e-mail is being scanned - check the item to confirm you want to be informed via notification dialog displayed over the AVG icon on the system tray during the scanning of your mail via E-mail Scanner component. By default, this item is on, and it is recommended not to change this setting!

The advanced configuration of the **E-mail Scanner** component is accessible via the **Tools/Advanced settings** item of the system menu; however advanced configuration is recommended for experienced users only!

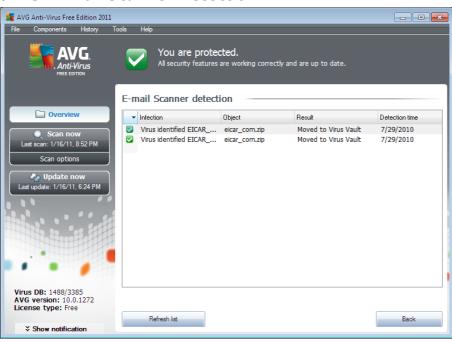
Please note: The software vendor has set up all AVG components to give optimum performance. Unless you have a real reason to do so, do not change the AVG configuration. Any changes to settings should only be performed by an experienced user. If you need to change AVG configuration, select the system menu item **Tools / Advanced settings** and edit the AVG configuration in the newly opened AVG Advanced Settings dialog.

Control buttons

The control buttons available within the **E-mail Scanner** interface are as follows:

- Save changes press this button to save and apply any changes made in this dialog
- Cancel press this button to return to the default AVG user interface (components overview)

6.7.3. E-mail Scanner Detection





In the **E-mail Scanner detection** dialog (accessible via system menu option History / E-mail Scanner detection) you will be able to see a list of all findings detected by the **E-mail Scanner** component. For each detected object the following information is provided:

- Infection- description (possibly even name) of the detected object
- Object object location
- Result action performed with the detected object
- Detection time date and time the suspicious object was detected
- Object Type type of the detected object

In the bottom part of the dialog, under the list, you will find information on total number of detected objects listed above. Further you can export the entire list of detected objects in a file (*Export list to file*) and delete all entries on detected objects (*Empty list*).

Control buttons

The control buttons available within the *E-mail Scanner detection* interface are as follows:

- Refresh list updates the list of detected threats
- Back switches you back to the previously displayed dialog

6.8. Update Manager

6.8.1. Update Manager Principles

No security software can guarantee true protection from various types of threats unless it is regularly updated! Virus writers are always looking for new flaws that they can exploit in both software and operating systems. New viruses, new malware, new hacking attacks appear daily. For this reason, software vendors are continually issuing updates and security patches, to fix any security holes that are discovered.

It is crucial to update your AVG regularly!

The **Update Manager** helps you to control regular updating. Within this component you can schedule automatic downloads of update files either from the Internet, or the local network. Essential virus definition updates should be daily if possible. Less urgent program updates can be weekly.

Note: Please pay attention to the AVG Updates chapter for more information on update types and levels!



6.8.2. Update Manager Interface



The **Update Manager**'s interface displays information about the component's functionality and its current status, and provides the relevant statistical data:

- Latest update specifies when and at what time the database was updated
- *Virus database version* defines the number of the currently installed virus database version; and this number increases with every virus base update
- Next scheduled update specifies when and at what time the database is scheduled to be updated again

Update Manager settings

In the bottom part of the dialog you can find the **Update Manager settings** section where you can perform some changes to the rules of the update process launch. You can define whether you wish the update files to be downloaded automatically (**Start automatic updates**) or just on demand. By default, the **Start automatic updates** option is switched on and we recommend to keep it that way! Regular download of the latest update files is crucial for proper functionality of any security software!

Further you can define when the update should be checked and launched. For the **AVG Anti-Virus Free Edition 2011** product the only option available is to download the updates within a specific time interval, i.e. once a day in a time period of two hours. However, you may specify the starting time of this time interval.

Please note: The software vendor has set up all AVG components to give optimum



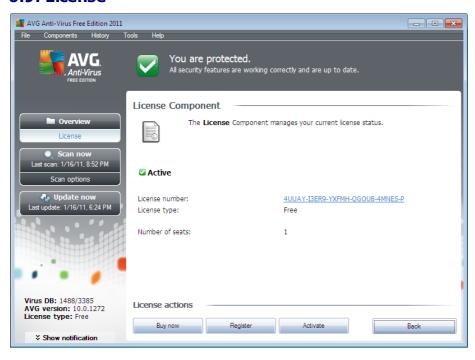
performance. Unless you have a real reason to do so, do not change the AVG configuration. Any changes to settings should only be performed by an experienced user. If you need to change AVG configuration, select the system menu item **Tools / Advanced settings** and edit the AVG configuration in the newly opened AVG Advanced Settings dialog.

Control buttons

The control buttons available within the **Update Manager** interface are as follows:

- **Update now** launches an <u>immediate update</u> on demand
- Save changes press this button to save and apply any changes made in this dialog
- Cancel press this button to return to the default AVG user interface (
 components overview)

6.9. License



In the *Licence* component interface you will find a brief text describing the component's functionality, information on its current status, and the following information:

- **License number** provides the shortened form of your license number (for security reasons the last four symbols are missing).
- License type specifies the product type installed (free license).



 Number of seats - how many workstations on which you are entitled to install your AVG Anti-Virus Free Edition 2011. Free AVG products are intended for non-commercial and home use only, and are valid for one license only.

Control buttons

- **Buy now** opens the AVG website (http://www.avg.com/) at the online store where you can purchase the full version of a selected AVG product.
- **Register** connects to the registration page of AVG website (http://www.avg.com/). Please fill in your registration data; only customers who register their AVG product can receive free technical support.
- **Re-activate** opens the **Activate AVG** dialog with the data you have entered in the AVG registration (within the Installation was successful dialog) during the installation process. Within this dialog you can enter your license number to either replace the sales number (the number you have installed AVG with), or to replace the old license number (e.g. when upgrading to a new AVG product).
- **Back** press this button to return to the default **AVG** user interface (components overview).

6.10. Anti-Rootkit

A rootkit is a program designed to take fundamental control of a computer system, without authorization by the system's owners and legitimate managers. Access to the hardware is rarely required as a rootkit is intended to seize control of the operating system running on the hardware. Typically, rootkits act to obscure their presence on the system through subversion or evasion of standard operating system security mechanisms. Often, they are also Trojans as well, thus fooling users into believing they are safe to run on their systems. Techniques used to accomplish this can include concealing running processes from monitoring programs, or hiding files or system data from the operating system.

6.10.1. Anti-Rootkit Principles

AVG Anti-Rootkit is a specialized tool detecting and effectively removing dangerous rootkits, i.e. programs and technologies that can camouflage the presence of malicious software on your computer. **AVG Anti-Rootkit** is able to detect rootkits based on a predefined set of rules. Please note, that all rootkits are detected (not just the infected). In case **AVG Anti-Rootkit** finds a rootkit, it does not necessarily mean the rootkit is infected. Sometimes, rootkits are used as drivers or they are a part of correct applications.



6.10.2. Anti-Rootkit Interface



The **Anti-Rootkit** user interface provides a brief description of the component's functionality, informs on the component's current status, and also brings information on the last time the **Anti-Rootkit** test was launched (**Last rootkit search**). The **Anti-Rootkit** dialog further provides the **Tools/Advanced Settings** link. Use the link to get redirected to the environment for advanced configuration of **Anti-Rootkit** component.

Please note: The software vendor has set up all AVG components to give optimum performance. Unless you have a real reason to do so, do not change the AVG configuration. Any changes to settings should only be performed by an experienced user.

Anti-Rootkit settings

In the bottom part of the dialog you can find the **Anti-Rootkit settings** section where you can set up some elementary functions of the rootkit presence scanning. First, mark up the respective check-boxes to specify objects that should be scanned:

- Scan applications
- Scan DLL libraries
- Scan drivers

Further you can pick the rootkit scanning mode:

• Quick rootkit scan - scans all running processes, loaded drivers and the



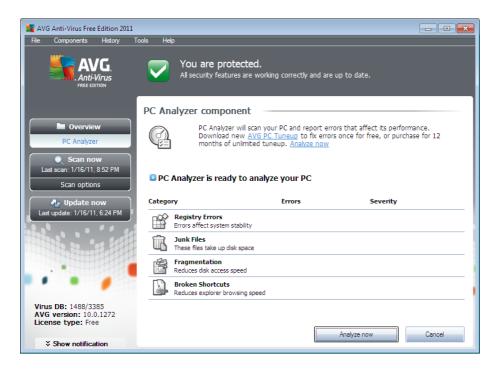
- system folder (typically c:\Windows)
- Full rootkit scan scans all running processes, loaded drivers, the system folder (typically c:\Windows), plus all local disks (including the flash disk, but excluding floppy disk/CD drives)

Control buttons

- Search for rootkits since the rootkit scan is not an implicit part of the Scan
 of the whole computer, you can run the rootkit scan directly from the AntiRootkit interface using this button
- Save changes press this button to save all changes made in this interface and to return to the default AVG user interface (components overview)
- Cancel press this button to return to the default AVG user interface (components overview) without having saved any changes you made

6.11. PC Analyzer

The **PC Analyzer** component is able to scan your computer for system problems, and give you a transparent overview of what might be aggravating your computer's overall performance. In the component's user interface you can see a chart divided into four lines referring to respective categories: registry errors, junk files, fragmentation, and broken shortcuts:



• **Registry Errors** will give you the number of errors in Windows Registry. As fixing the Registry requires quite advanced knowledge, we do not recommend



to try and fix it yourself.

- **Junk Files** will give you the number of files that can be most likely done without. Typically, these will be many kinds of temporary files, and files in the Recycle Bin.
- **Fragmentation** will calculate the percentage of your harddisk that is fragmented, i.e. used for a long time so that most files are now scattered on different parts of the physical disk. You can use some defragmentation tool to fix this.
- **Broken Shortcuts** will notify you of shortcuts that no longer work, lead to non-existing locations etc.

To start the analysis of your system, press the **Analyze now** button. You will then be able to watch the analysis progress and its results directly in the chart:



The results overview provides the number of detected system problems (*Errors*) divided according to the respective categories tested. The analysis results will also be displayed graphically on an axis in the *Severity* column.

Control buttons

- **Analyze now** (displayed before the analysis stars) press this button to launch the immediate analysis of your computer
- Fix now (displayed once the analysis is finished) press the button to get to the AVG website (http://www.avg.com/) at page providing detailed and up-to-date information related to PC Analyzer component



 Cancel - press this button to stop the running analysis, or to return to the default AVG user interface (components overview) once the analysis is completed

6.12. Security Toolbar

The **Security Toolbar** is an optional web browser toolbar, offering enhanced AVG protection and various features and tools at hand while surfing the web. Currently, the **Security Toolbar** is supported by Internet Explorer (6.0 or higher), and Mozilla Firefox (3.0 or higher) web browsers:



All settings of the **Security Toolbar** component is accessible either in the specific advanced settings dialog, or directly in the **Security Toolbar** within your web browser.



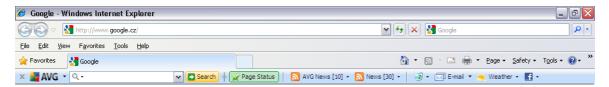
7. AVG Security Toolbar

AVG Security Toolbar is a new tool which works together with the **LinkScanner** component, and checks search results of the supported Internet search engines (Yahoo!, Google, Bing, Baidu, Yandex). **AVG Security Toolbar** can be used to control **LinkScanner** functions and to adjust its behavior, and to update your AVG in case new updates are available. There are some other functions included in **AVG Security Toolbar**.

If you select to install the toolbar during the installation of **AVG Anti-Virus Free Edition 2011**, it will be added into your web browser (*Internet Explorer 6.0 or higher*, and Mozilla Firefox 3.0 or higher) automatically. Other internet browsers are not supported at the moment. In case you are using some alternative Internet browser (e. g Avant Browser) you can meet unexpected behavior.

7.1. AVG Security Toolbar Interface

The **AVG Security Toolbar** is designed to work with **MS Internet Explorer** (version 6.0 or higher) and **Mozilla Firefox** (version 3.0 or higher). Once you have decided you want to install **AVG Security Toolbar** (), the component will be located in your web browser just under the address bar:



Note: During the AVG installation process (within the AVG Security Toolbar dialog) you were asked to decide whether or not you wish to install the AVG Security Toolbar component. If you originally decided not to install the component but you would like to use it now, you can still install it via the Add/Remove components installation. To launch this Add/Remove installation, download the installation file from the AVG Anti-Virus Free Edition 2011 website (http://free.avg.com/cz-en/homepage). Once you start the installation process, it automatically recognizes there is AVG already installed on your computer, and invites you to Add/Remove components.

The **AVG Security Toolbar** consists of the following:

7.1.1. AVG logo button

This button provides access to general toolbar items. Click the logo button to get redirected to AVG website (http://www.avg.com/). Clicking the pointer next to the AVG icon will open the following:

- **Toolbar Info** link to the **AVG Security Toolbar** home page with detailed information on the toolbar's protection
- Launch AVG opens the AVG Anti-Virus Free Edition 2011 user interface

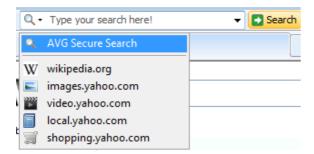


- **AVG Info** opens a context menu with the following links leading important security information related to **AVG Anti-Virus Free Edition 2011**:
 - AVG News opens the web page providing the latest AVG related press release
 - o Current Threat Level opens the virus lab web page with a graphical display of the current threat level on the web
 - AVG Threat Labs opens the <u>AVG Site Reports</u> website where you can search the specific threats by name and get detailed information on each one
 - Upgrade my AVG opens the AVG website (http://www.avg.com/)
 offering upgrade to a full professional protection using one of AVG paid
 products.
- Options opens a configuration dialog where you can adjust your AVG
 Security Toolbar settings to suit your needs see the following chapter AVG
 Security Toolbar Options
- **Delete History** allows you within **AVG Security Toolbar** delete complete history, or separately to delete search history, delete browser history, delete download history and delete cookies.
- Update checks for new updates for your AVG Security Toolbar
- Help provides options to open the help file, contact <u>AVG technical support</u>, send your product related feedback, or view the details of the current version of the toolbar

7.1.2. AVG Secure Search powered search box

AVG Secure Search powered search box is easy and safe way to search the web using Yahoo! search. Enter a word or phrase into the search box press the **Search** button, or the **Enter** key, to start the search on the Yahoo! server directly, no matter what page is currently displayed. The search box also lists your search history. Searches done through the search box are analyzed using the **Search-Shield** protection.

Alternatively, within the search field you can switch to Wikipedia, or some other specific search service - see picture:





7.1.3. Page Status

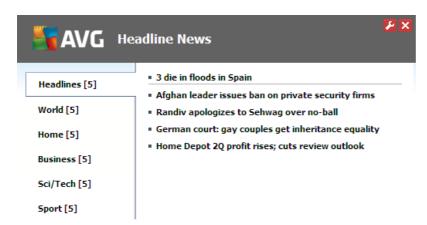
Directly in the toolbar, this button displays the evaluation of the currently displayed web page base on criteria of the *Surf-Shield* component:

- * The linked page is safe
- 🕛 Page is somewhat suspicious.
- 🚇 Page containing links to positively dangerous pages.
- Z The linked page contains active threats! For your own safety, you will not be allowed to visit this page.
- The page is not accessible, and so could not be scanned.

Click the button to open an information panel with detailed data on the specific web page.

7.1.4. News

Similarly, directly from within the **AVG Security Toolbar**, this button opens an overview of the latest news from selected media divided into several sections:



In the right upper corner you can see two red control buttons:

• Lack - the button opens the editing dialog where you can specify parameters of the **News** button displayed within the **AVG Security Toolbar**:





- o **Button name** you have the option of changing the button name as it is displayed within **AVG Security Toolbar**
- News edition chose a country from the list to have displayed news from the selected region
- Show messages specify the desired number of messages that are to be displayed at a time
- RSS design switch between the Basic/Advanced option to select the design of the news overview (advanced design is set by default, see picture above)
- Hide read messages mark this item to confirm that any read message should not be displayed any longer in the news overview, and should be replaced by a new headline
- Button shows in this field you can assign what sort of news should be displayed in the AVG Security Toolbar news overview
 - 🗵 click this button to close the currently opened news overview

7.1.5. Delete history

Using this button you can delete the history of your browser just like via the **AVG logo** -> **Delete history** option.



7.1.6. E-mail Notifier

The *E-mail Notifier* button allows you to activate the option of being informed about newly arrived e-mail messages directly in the *AVG Security Toolbar* interface. The button opens the following editing dialog where you can define parameters of your e-mail account and the e-mail display rules. Please follow the instructions in the dialog:



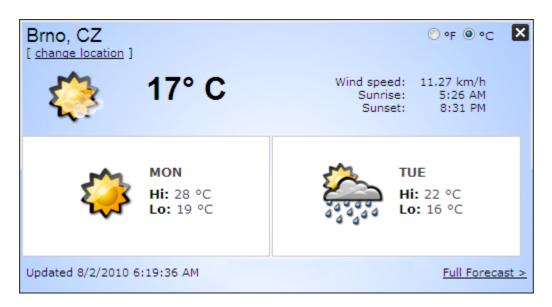
- Account type Specify the protocol type your e-mail account uses. You can select among the following alternatives: Gmail, POP3, or select the server name from the drop down menu within the Other item (at the moment, you can use this option if your account is on Yahoo! Mail or Hotmail). If you are not sure what e-mail server type your account uses, try to find the information from your e-mail provider, or your internet service provider.
- **Login** In the section below provide the exact form of your *e-mail address*, and the respective *password*. Keep the *Auto Login* option marked so that you do not have to fill in the data repeatedly.
- Test account Use this button to test the entered details.
- Reset Settings Quickly removes the above entered e-mail address details.
- Check for new e-mails every ... minutes Define the time interval to be used to check for new e-mail messages (in the range of 5-120 minutes), and specify whether and how you want to be informed about the new message arrival.



- **Allow new e-mail alerts** Uncheck this to disable visual notifications of new e-mail messages arrival.
 - o **Play a sound when new e-mails arrive** Uncheck this to disable sound notifications of new e-mail messages arrival.
 - Close notification window after 5 seconds Check this to automatically close the visual notification window of new e-mail messages arrival after 5 seconds.

7.1.7. Weather Info

The **Weather** button displays the information on the current temperature (*updated every 3-6 hours*) in your selected destination directly within the **AVG Security Toolbar** interface. Click the button to open a new info panel with detailed weather overview:



Following find the editing options:

- Change location click the Change location text to display a new dialog called Search for your location. Fill in the name of your desired location into the text field, and confirm by clicking the Search button. Next, within the list of all locations of the same name select the destination you are looking for. Finally, the info panel will be displayed again providing the weather information for the selected location.
- Fahrenheit / Celsius converter in the upper right-hand corner of the info panel you can chose between the Fahrenheit and Celsius scales. Based on your selection, the temperature information will be further provided in the selected scale.
- Full Forecast if interested in full and detailed forecast, use the Full Forecast link to get to the specialized weather website.



7.1.8. Facebook

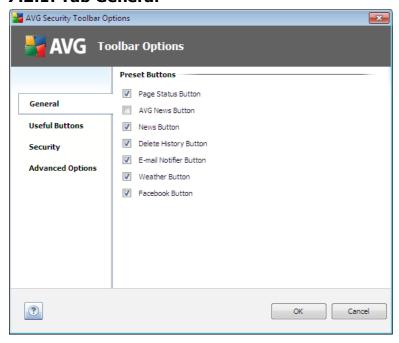
The **Facebook** button allows you connect to the <u>Facebook</u> social network from the **AVG Security Toolbar** directly. Click the button, and the login invitation appears; click again to open the **Facebook login** dialog. Provide your access data, and press the **Connect** button. If you do not have a Facebook account yet, you can create one directly using the **Sign up for Facebook** link.

Once you get through the Facebook registration process, you will be invited to allow the **AVG Social Extension** application. This application functionality is essential for the toolbar - Facebook connection, therefore it is recommended to allow its functioning, therefore make sure you allow it. Then, the Facebook connection will be activated, and the **Facebook** button within **AVG Security Toolbar** now offers the standard Facebook menu options.

7.2. AVG Security Toolbar Options

All **AVG Security Toolbar** parameters configuration is accessible directly within the **AVG Security Toolbar** panel. The editing interface opens via the AVG / Options toolbar menu item in a new dialog called **Toolbar Options** divided into four sections:

7.2.1. Tab General



On this tab you can specify toolbar control buttons that should be displayed or hidden within the **AVG Security Toolbar** panel. Mark any option in case you want to have displayed the respective button. Further find described the functionality of each of the toolbar buttons:

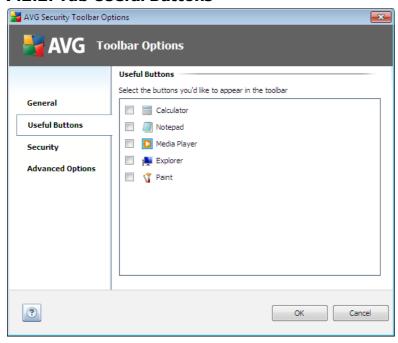
• Page Status Button - the button offers the possibility of having displayed the information on the currently opened page security status within AVG Security



Toolbar

- **AVG News Button** the button opens a web page providing the latest AVG related press release
- **News Button** the button provides a structured overview of current news from the daily press
- Delete History Button this button allows you to Delete complete history, or Delete search history, Delete browser history, Delete download history, or Delete cookies directly from the AVG Security Toolbar panel
- *E-mail Notifier Button* the button allows you to have displayed your newly arrived e-mail messages within the *AVG Security Toolbar* interface
- **Weather Button** the button offers an immediate information on the weather situation in a selected location
- Facebook Button the button offers a direct connection to the Facebook social network

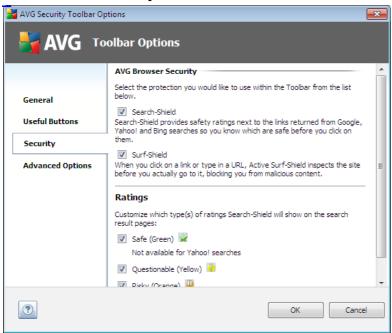
7.2.2. Tab Useful Buttons



The **Useful Buttons** tab allows you to select applications from a list and have their icon displayed in the toolbar interface. The icon then serves as a quick link enabling to launch the respective application immediately.



7.2.3. Tab Security



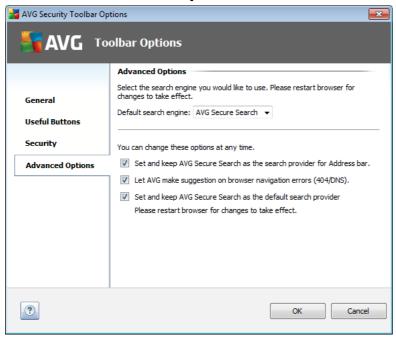
The **Security** tab is divided into two sections, **AVG Browser Security** and **Ratings**, where you can mark specific check-boxes to assign **AVG Security Toolbar** functionality you want to use:

- AVG Browser Security check this item to activate or switch-off the Search-Shield and/or Surf-Shield service
- **Ratings** select graphical symbols used for search results ratings by the **Search-Shield** component that you want to use:
 - o 🚧 page is safe
 - o **!** page is somewhat suspicious
 - o 👑 page containing links to positively dangerous pages
 - o 🛛 page contains active threats
 - o page is not accessible, and so could not be scanned

Mark the respective option to confirm you want to be informed about this specific threat level. However, display of the red mark assigned to pages containing active and dangerous threats cannot be switched-off. Again, it is recommended to keep the default configuration set by the program vendor unless you have a real reason to change it.



7.2.4. Tab Advanced Options



On the **Advanced Options** tab first select what search engine you want to use as default. You have the choice of *Yahoo!*, *Baidu*, *WebHledani*, and *Yandex*. Having changed the default search engine, please restart your internet browser for the change to take effect.

Further, you can activate or switch-off further specific **AVG Security Toolbar** settings (the listed caption refers to the default AVG Secure Search settings):

- Set and keep AVG Secure Search as the search provider for Address bar if marked, this option allows you to type a search keyword directly into the address bar into your Internet browser and the AVG Secure Search service will be used automatically to search for relevant websites.
- Let AVG make suggestion on browser navigation errors (404/) if when searching the web you run into a non-existing page, or a page that cannot be displayed (404 error), you will be automatically redirected to a web page that allows you to select from an overview of alternative topic-related pages.
- Set and keep AVG Secure Search as the search provider AVG Secure Search is the default search engine for web search within AVG Security Toolbar, and activating this option it can also become your web browser default search engine.

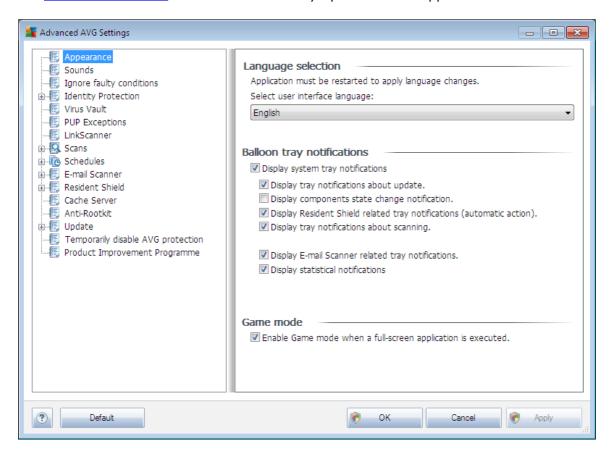


8. AVG Advanced Settings

The advanced configuration dialog of **AVG Anti-Virus Free Edition 2011** opens in a new window named **Advanced AVG Settings**. The window is divided into two sections: the left part offers a tree-arranged navigation to the program configuration options. Select the component you want to change the configuration of (or its specific part) to open the editing dialog in the right-hand section of the window.

8.1. Appearance

The first item of the navigation tree, **Appearance**, refers to the general settings of the <u>AVG user interface</u> and a few elementary options of the application's behavior:

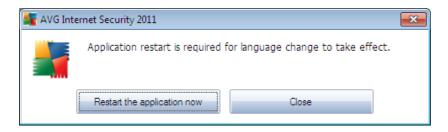


Language selection

In the *Language selection* section you can chose your desired language from the drop-down menu; the language will then be used for the entire <u>AVG user interface</u>. The drop-down menu only offers those languages you have previously selected to be installed during the <u>installation process</u> (*see chapter Custom Option*) plus English (*that is installed by default*). However, to finish switching the application to another language you have to restart the user interface; follow these steps:



- Select the desired language of the application and confirm your selection by pressing the Apply button (right-hand bottom corner)
- Press the **OK** button confirm
- New dialog window pops-up informing you the language change of AVG user interface requires the application restart:



Balloon tray notifications

Within this section you can suppress display of system tray balloon notifications on the status of the application. By default, the balloon notifications are allowed to be displayed, and it is recommended to keep this configuration! The balloon notifications typically inform on some AVG component's status change, and you should pay attention to them!

However, if for some reason you decide you do not wish these notifications to be displayed, or you would like only certain notifications (related to a specific AVG component) to be displayed, you can define and specify your preferences by checking/unchecking the following options:

- **Display system tray notifications** by default, this item is checked (switched on), and notifications are displayed. Uncheck this item to completely turn off the display of all balloon notifications. When turned on, you can further select what specific notifications should be displayed:
 - Display tray notifications about update decide whether information regarding AVG update process launch, progress, and finalization should be displayed;
 - Display components state change notifications decide whether information regarding component's activity/inactivity or its possible problem should be displayed. When reporting a component's fault status, this option equals to the informative function of the system tray icon (color changing) reporting a problem in any AVG component;
 - Display Resident Shield related tray notifications (automatic action)
 decide whether information regarding file saving, copying, and opening processes should be displayed or suppressed (this configuration only demonstrates if the Resident Shield Auto-heal option is on);



- Display tray notifications about scanning decide whether information upon automatic launch of the scheduled scan, its progress and results should be displayed;
- Display E-mail Scanner related tray notifications decide whether information upon scanning of all incoming and outgoing e-mail messages should be displayed.
- o **Display statistical notifications** keep the option checked to allow regular statistical review notification to be displayed in the system tray.

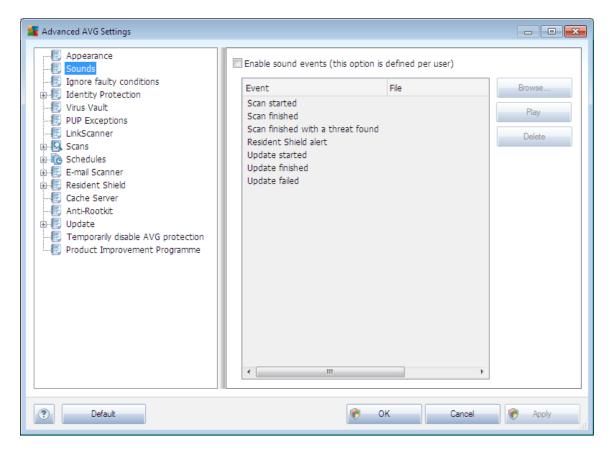
Gaming mode

This AVG function is designed for full-screen applications where possible AVG information balloons (displayed e.g. when a scheduled scan is started) would be disturbing (they could minimize the application or corrupt its graphics). To avoid this situation, keep the check box for the **Enable gaming mode when a full-screen** application is executed option marked (default setting).

8.2. Sounds

Within the **Sounds** dialog you can specify whether you want to be informed about specific AVG actions by a sound notification. If so, check the **Enable sound events** option (off by default) to activate the list of AVG actions:





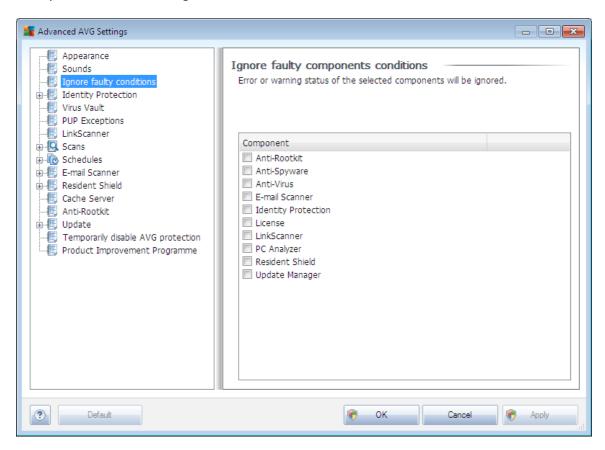
Then, select the respective event from the list and browse (*Browse*) your disk for an appropriate sound you want to assign to this event. To listen to the selected sound, highlight the event in the list and push the *Play* button. Use the *Delete* button to remove the sound assigned to a specific event.

Note: Only *.wav sounds are supported!



8.3. Ignore Faulty Conditions

In the **Ignore faulty components conditions** dialog you can tick those components that you do not want to get informed about:



By default, no component is selected in this list. It means that if any component get to an error status, you will be informed about it immediately via:

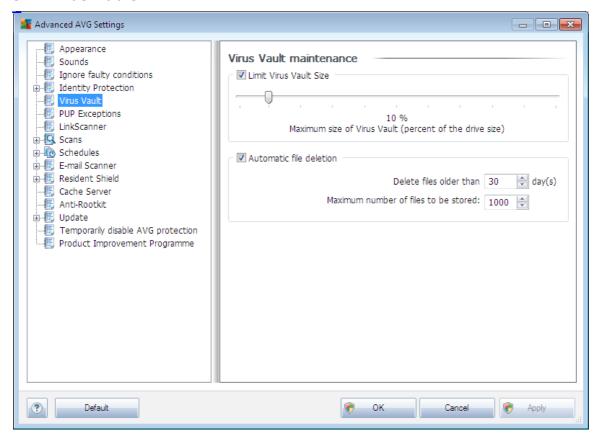
- system tray icon while all parts of AVG are working properly, the icon is displayed in four colors; however, if an error occurs, the icon appears with a yellow exclamation mark,
- text description of the existing problem in the Security Status Info section of the AVG main window

There might be a situation that for some reason you need to switch a component off temporarily (this is not recommended, you should try to keep all components permanently on and in default configuration, but it may be happen). In that case the system tray icon automatically reports the component's error status. However, in this very case we cannot talk about an actual error since you have deliberately induced it yourself, and you are aware of the potential risk. At the same time, once being displayed in grey color, the icon cannot actually report any possible further error that might appear.



For this situation, within the above dialog you can select components that may be in an error state (or switched off) and you do not wish to get informed about it. The same option of **Ignoring component state** is also available for specific components directly from the <u>components overview in the AVG main window</u>.

8.4. Virus Vault



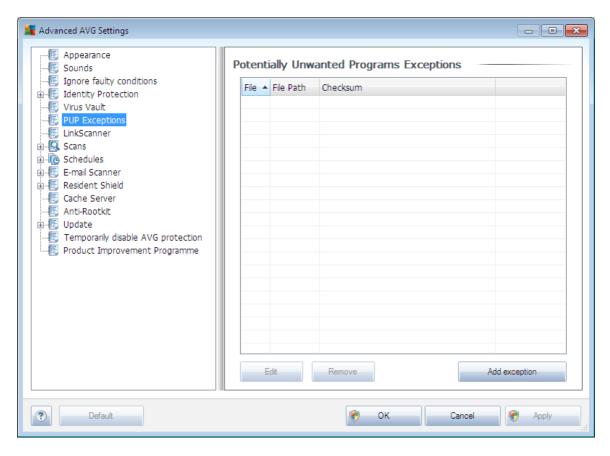
The **Virus Vault maintenance** dialog allows you to define several parameters regarding the administration of objects stored in the **Virus Vault**:

- Limit Virus Vault size use the slider to set up the maximum size of the Virus
 Vault. The size is specified proportionally compared to the size of your local
 disk.
- Automatic file deletion in this section define the maximum length of time that objects should be stored in the Virus Vault (Delete files older than ... days), and the maximum number of files to be stored in the Virus Vault (Maximum number of files to be stored)



8.5. PUP Exceptions

AVG Anti-Virus Free Edition 2011 is able to analyze and detect executable applications or DLL libraries that could be potentially unwanted within the system. In some cases the user may wish to keep certain unwanted programs on the computer (programs that were installed on purpose). Some programs, especially free ones, include adware. Such adware might be detected and reported by AVG as a potentially unwanted program. If you wish to keep such a program on your computer, you can define it as a potentially unwanted program exception:



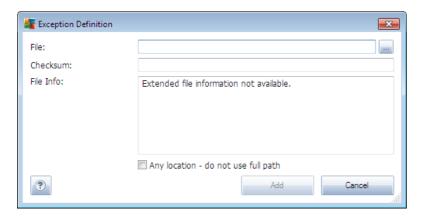
The **Potentially Unwanted Programs Exceptions** dialog displays a list of already defined and currently valid exceptions from potentially unwanted programs. You can edit the list, delete existing items, or add new exceptions. The following information can be found in the list for every single exception:

- File provides the name of the respective application
- File Path shows the way to the application's location
- **Checksum** displays the unique 'signature' of the chosen file. This checksum is an automatically generated string of characters, which allows AVG to unequivocally distinguish the chosen file from other files. The checksum is generated and displayed after successful addition of the file.



Control buttons

- **Edit** opens an editing dialog (*identical with the dialog for a new exception definition, see below*) of an already defined exception where you can change the exception's parameters
- **Remove** deletes the selected item from the list of exceptions
- Add exception open an editing dialog where you can define parameters of the new exception to be created:

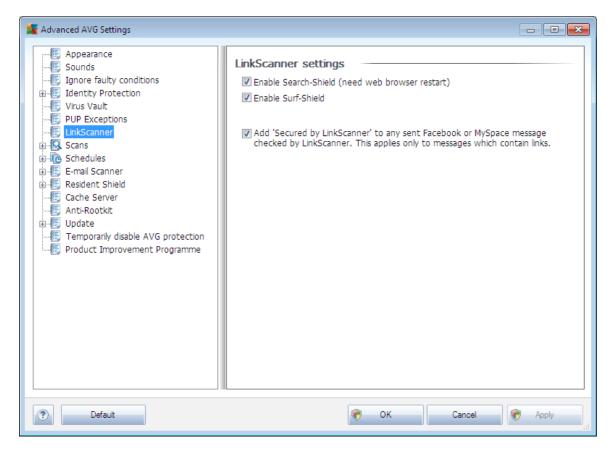


- File type the full path to the file that you want to mark as an exception
- Checksum displays the unique 'signature' of the chosen file. This
 checksum is an automatically generated string of characters, which
 allows AVG to unequivocally distinguish the chosen file from other files.
 The checksum is generated and displayed after successful addition of the
 file.
- File Info displays any additional information available about the file (license/version information etc.)
- o **Any location do not use full path** if you want to define this file as an exception only for the specific location, then leave this checkbox unchecked. If the checkbox is marked, the specified file is defined as an exception no matter where it is located (however, you have to fill in the full path to the specific file anyway; the file will then be used as a unique example for the possibility that two files of the same name appear in your system).



8.6. Link Scanner

The **LinkScanner settings** dialog allows you to switch on/off the elementary features of the **LinkScanner**:



- Enable Search-Shield (on by default): advisory notifying icons on searches performed with Google, Yahoo!, WebHledani, Yandex, Baidu, Bing, AOL, AltaVista, EarthLink, Ask, or Seznam having checked ahead the content of sites returned by the search engine.
- **Enable Surf-Shield** (on by default): active (real-time) protection against exploitive sites as they are accessed. Known malicious site connections and their exploitive content is blocked as they are accessed by the user via a web browser (or any other application that uses HTTP).
- Add 'Secured by LinkScanner' ... mark this item to confirm you wish to
 enter the certification notice on Link Scanner check into all messages
 containing active hyperlinks, that were sent from Facebook and MySpace
 social networks.



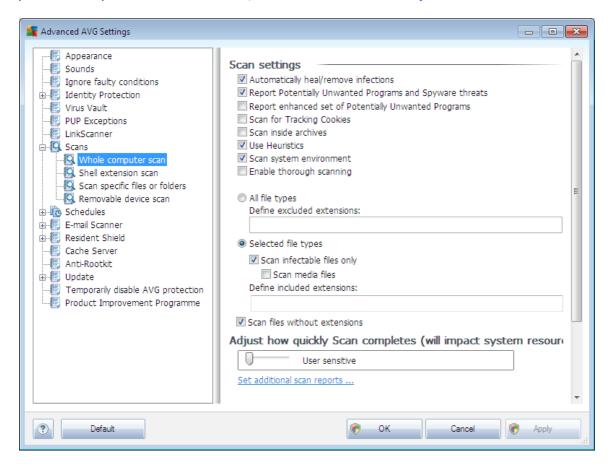
8.7. Scans

The advanced scan settings is divided into four categories referring to specific scan types as defined by the software vendor:

- Whole Computer scan standard predefined scan of the entire computer
- **Shell Extension Scan** specific scanning of a selected object directly from the Windows Explorer environment
- Scan Specific Files or Folders standard predefined scan of selected areas of your computer
- Removable Device Scan specific scanning of removable devices attached to your computer

8.7.1. Scan Whole Computer

The **Whole Computer scan** option allows you to edit parameters of one of the scans predefined by the software vendor, **Scan of the whole computer**:



Scan settings



The **Scan settings** section offers a list of scanning parameters that can be optionally switched on/off:

- Automatically heal/remove infection (on by default) if a virus is identified during scanning it can be healed automatically if a cure is available. If the infected file cannot be healed automatically, the infected object will be moved to the Virus Vault.
- Report Potentially Unwanted Programs and Spyware threats (on by default) check to activate the Anti-Spyware engine, and scan for spyware as well as for viruses. Spyware represents a questionable malware category: even though it usually represents a security risk, some of these programs can be installed intentionally. We recommend to keep this feature activated as it increases your computer security.
- Report enhanced set of Potentially Unwanted Programs (off by default) mark to detect extended package of spyware: programs that are perfectly ok and harmless when acquired from the manufacturer directly, but can be misused for malicious purposes later. This is an additional measure that increases your computer security even more, however it can possibly block legal programs, and is therefore switched off by default.
- Scan for Tracking Cookies (off by default) this parameter of the Anti-Spyware component defines that cookies should be detected; (HTTP cookies are used for authenticating, tracking, and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts)
- **Scan inside archives** (off by default) this parameters defines that scanning should check all files stored inside archives, e.g. ZIP, RAR, ...
- **Use Heuristics** (on by default) heuristic analysis (dynamic emulation of the scanned object's instructions in a virtual computer environment) will be one of the methods used for virus detection during scanning;
- **Scan system environment** (on by default) scanning will also check the system areas of your computer.
- **Enable thorough scanning** (off by default) in specific situations (suspicious of your computer being infected) you may check this option to activate the most thorough scanning algorithms that will scan even those areas of your computer that can hardly get infected, just to be absolutely sure. Remember though that this method is rather time consuming.

Further you should decide whether you want to have scanned

• All file types with the possibility of defining exceptions from scanning by providing a list of comma separated (having been saved, the commas change into semicolons) file extensions that should not be scanned;



- Selected file types you can specify that you want to scan only files that are possibly infectable (files that cannot get infected will not be scanned, for instance some plain text files, or some other non-executable files), including media files (video, audio files if you leave this box unchecked, it will reduce the scanning time even more, because these files are often quite large and are not too likely to be infected by a virus). Again, you can specify by extensions which files are those that should always be scanned.
- Optionally, you can decide you want to **Scan files without extension** this option is on by default, and it is recommended that you keep it so unless you have a real reason to change it. Files with no extension are rather suspicious and should be scanned at all times.

Adjust how quickly Scan completes

Within the *Adjust how quickly scan completes* section you can further specify the desired scanning speed dependent on system resource usage. By default, this option value is set to *User sensitive* level, which means that minimum resources are used while you work with your PC, and the scan runs in the high priority mode while you are away.

If you want the scanning to run faster, it will take less time but system resources usage will increase significantly during the scan, and will slow down your other activities on the PC (this option can be used when your computer is switched on but nobody is currently working on it). On the other hand, you can decrease system resources usage by extending the scanning duration.

Set additional scan reports ...

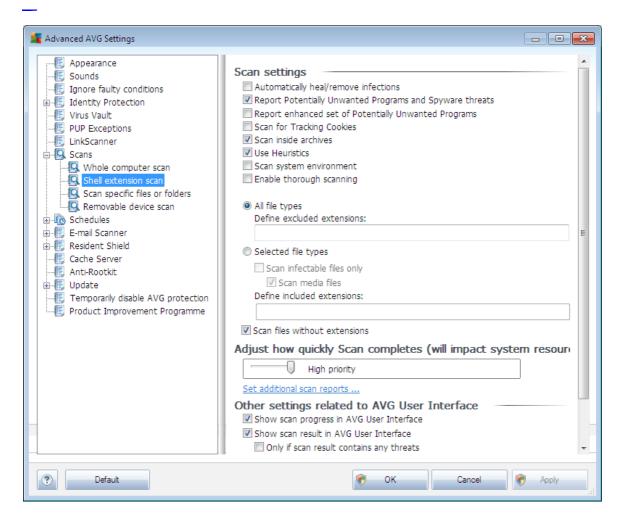
Click the **Set additional scan reports** ... link to open a standalone dialog window called **Scan reports** where you can tick several items to define what scan findings should be reported:



8.7.2. Shell Extension Scan

Similar to the previous **Whole Computer scan** item, this item named **Shell extension scan** also offers several options for editing the scan predefined by the software vendor. This time the configuration is related to <u>scanning of specific objects launched directly from the Windows Explorer</u> environment (*shell extension*), see chapter **Scanning in Windows Explorer**:





The list of parameters is identical to those available for the **Scan of the whole computer**. However, the default settings differ (for instance, Whole Computer scan by default does not check the archives but it does scan the system environment, while with the Shell Extension Scan it is the other way).

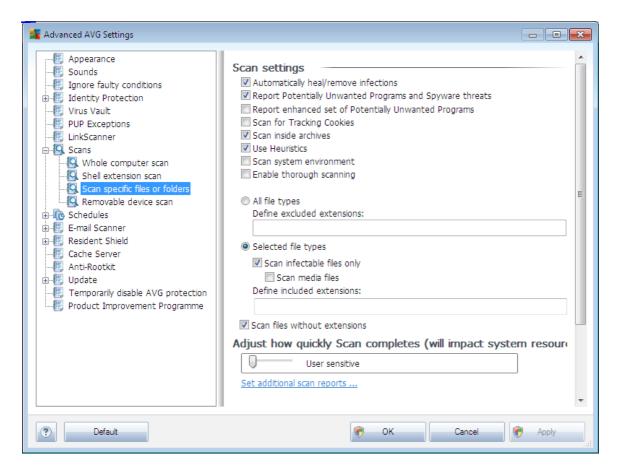
Note: For a description of specific parameters please consult the chapter **AVG Advanced Settings / Scans / Whole Computer scan**.

Compared to **Whole Computer scan** dialog, the **Shell extension scan** dialog also includes the section named **Other settings related to AVG User Interface**, where you can specify whether you want the scan progress and scan results to be accessible from the AVG user interface. Also, you can define that the scan result should only be displayed in case an infection is detected during scanning.

8.7.3. Scan Specific Files or Folders

The editing interface for **Scan specific files or folders** is identical to the **Whole Computer scan** editing dialog. All configuration options are the same; however, the default settings are more strict for the **Scan of the whole computer**:





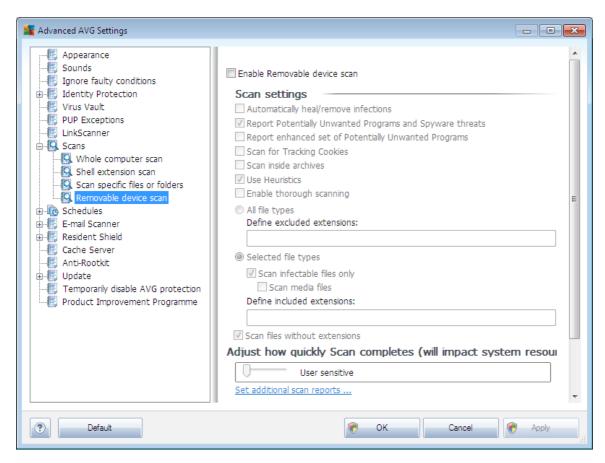
All parameters set up in this configuration dialog apply only to the areas selected for scanning with the **Scan of specific files or folders!**

Note: For a description of specific parameters please consult the chapter **AVG Advanced Settings / Scans / Whole Computer scan**.



8.7.4. Removable Device Scan

The editing interface for **Removable device scan** is also very similar to the **Whole Computer scan** editing dialog:



The **Removable device scan** is launched automatically once you attach any removable device to your computer. By default, this scanning is switched off. However, it is crucial to scan removable devices for potential threats since these are a major source of infection. To have this scanning ready and launched automatically when needed, mark the **Enable Removable device scan** option.

Note: For a description of specific parameters please consult the chapter **AVG Advanced Settings / Scans / Whole Computer scan**.

8.8. Schedules

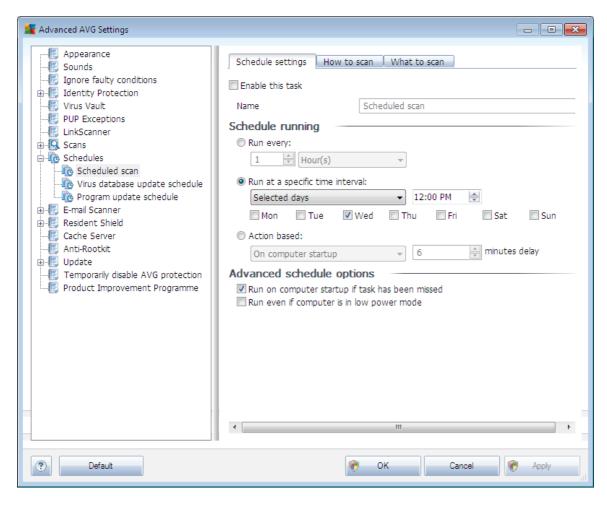
In the **Schedules** section you can edit the default settings of:

- Scheduled scan
- Virus database update schedule
- Program update schedule



8.8.1. Scheduled Scan

Parameters of the scheduled scan can be edited (or a new schedule set up) on three tabs:



On the **Schedule settings** tab you can first check/uncheck the **Enable this task** item to simply deactivate the scheduled test temporarily, and switch it on again as the need arises.

Next, in the text field called **Name** (deactivated for all default schedules) there is the name assigned to this very schedule by the program vendor. For newly added schedules (you can add a new schedule by mouse right-click over the **Scheduled** scan item in the left navigation tree) you can specify your own name, and in that case the text field will be open for editing. Try to always use brief, descriptive and apt names for scans to make it easier to later recognize the scan from others.

Example: It is not appropriate to call the scan by the name of "New scan" or "My scan" since these names do not refer to what the scan actually checks. On the other hand, an example of a good descriptive name would be "System areas scan" etc. Also



it is not necessary to specify in the scan's name whether it is the scan of the whole of the computer or just a scan of selected files or folders - your own scans will always be a specific version of the scan of selected files or folders.

In this dialog you can further define the following parameters of the scan:

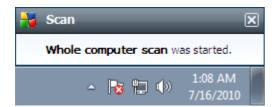
Schedule running

Here, you can specify time intervals for the newly scheduled scan launch. The timing can either be defined by the repeated scan launch after a certain period of time (*Run every ...*) or by defining an exact date and time (*Run at specific time interval ...*), or possibly by defining an event that the scan launch should be associated with (*Action based on computer startup*).

Advanced schedule options

This section allows you to define under which conditions the scan should/should not be launched if the computer is in low power mode or switched off completely.

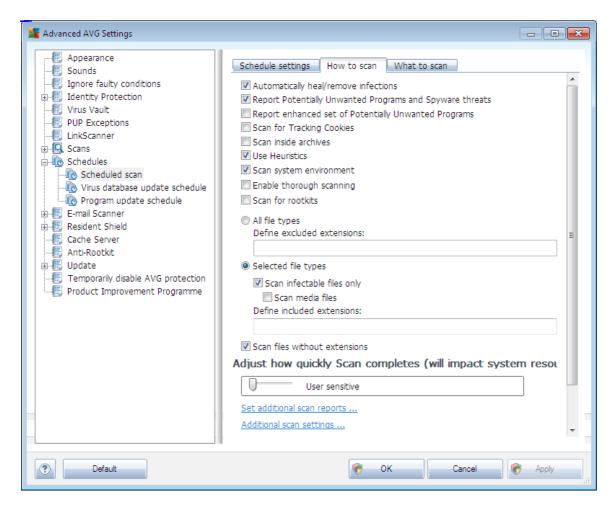
Once the scheduled scan is launched in the time you have specified, you will be informed on this fact via a pop-up window opened over the <u>AVG system tray icon</u>:



Having launched the scan the AVG system tray icon changes its appearance (in full color with a flash light) to inform you a scheduled scan is running. Right-click on the running scan AVG icon to open a context menu where you can decide to pause or even stop the running scan, and also change the priority of the currently running scan:







On the **How to scan** tab you will find a list of scanning parameters that can be optionally switched on/off. By default, most parameters are switched on and the functionality will be applied during scanning. Unless you have a valid reason to change these settings we recommend to keep the predefined configuration:

- Automatically heal/remove infection (on by default): if a virus is identified during scanning it can be healed automatically if a cure is available. If the infected file cannot be healed automatically, the infected object will be moved to the Virus Vault.
- Report Potentially Unwanted Programs and Spyware threats (on by default): check to activate the Anti-Spyware engine, and scan for spyware as well as for viruses. Spyware represents a questionable malware category: even though it usually represents a security risk, some of these programs can be installed intentionally. We recommend to keep this feature activated as it increases your computer security.
- Report enhanced set of Potentially Unwanted Programs (off by default): mark to detect extended package of spyware: programs that are perfectly ok



- and harmless when acquired from the manufacturer directly, but can be misused for malicious purposes later. This is an additional measure that increases your computer security even more, however it can possibly block legal programs, and is therefore switched off by default.
- Scan for Tracking Cookies (off by default): this parameter of the Anti-Spyware component defines that cookies should be detected during scanning; (HTTP cookies are used for authenticating, tracking, and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts)
- **Scan inside archives** (off by default): this parameter defines the scanning should check all files even if they are stored inside an archive, e.g. ZIP, RAR, ...
- **Use Heuristics** (on by default): heuristic analysis (dynamic emulation of the scanned object's instructions in a virtual computer environment) will be one of the methods used for virus detection during scanning;
- **Scan system environment** (on by default): scanning will also check the system areas of your computer;
- **Enable thorough scanning** (off by default) in specific situations (suspicious of your computer being infected) you may check this option to activate the most thorough scanning algorithms that will scan even those areas of your computer that can hardly get infected, just to be absolutely sure. Remember though that this method is rather time consuming.
- **Scan for rootkits** (off by default): tick this item if you want to include the rootkit detection into scanning of the entire computer. The rootkit detection is also available on its own within the **Anti-Rootkit** component;

Further you should decide whether you want to have scanned

- All file types with the possibility of defining exceptions from scanning by providing a list of comma separated (having been saved, the commas change into semicolons) file extensions that should not be scanned;
- Selected file types you can specify that you want to scan only files that are possibly infectable (files that cannot get infected will not be scanned, for instance some plain text files, or some other non-executable files), including media files (video, audio files if you leave this box unchecked, it will reduce the scanning time even more, because these files are often quite large and are not too likely to be infected by a virus). Again, you can specify by extensions which files are those that should always be scanned.
- Optionally, you can decide you want to **Scan files without extension** this option is on by default, and it is recommended that you keep it so unless you have a real reason to change it. Files with no extension are rather suspicious and should be scanned at all times.



Adjust how quickly Scan completes

Within the **Adjust how quickly Scan completes** section you can further specify the desired scanning speed dependent on system resource usage. By default, this option value is set to **User sensitive** level, which means that minimum resources are used while you work with your PC, and the scan runs in the high priority mode while you are away.

If you want the scanning to run faster, it will take less time but the system resources usage will increase significantly during the scan, and will slow down your other activities on the PC (this option can be used when your computer is switched on but nobody is currently working on it). On the other hand, you can decrease the system resources usage by extending the scanning duration.

Set additional scan reports

Click the **Set additional scan reports** ... link to open a standalone dialog window called **Scan reports** where you can tick several items to define what scan findings should be reported:

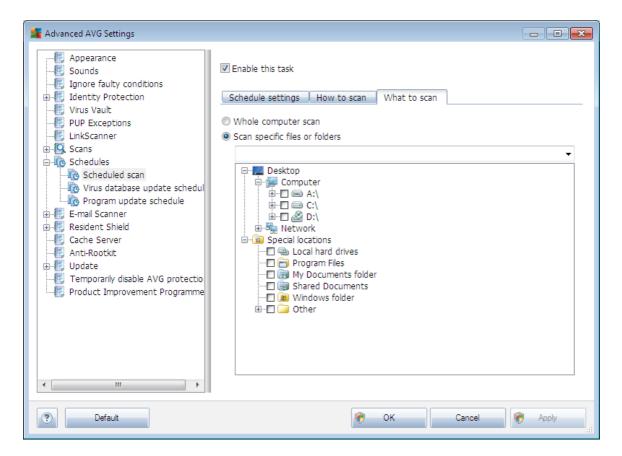


Additional scan settings

Click the **Additional scan settings** ... to open a new **Computer shutdown options** dialog where you can decide whether the computer should be shut down automatically once the running scanning process is over. Having confirmed this option (**Shutdown computer upon scan completion**), a new option activates that allows the computer to shut down even if it is currently locked (**Force shutdown if computer is locked**).



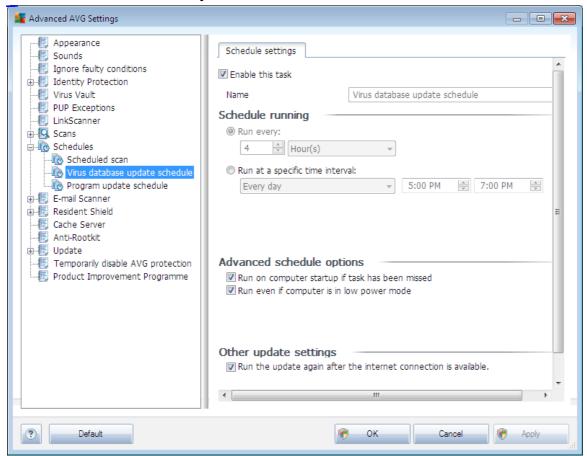




On the **What to scan** tab you can define whether you want to schedule <u>scanning of the whole computer</u> or <u>scanning of specific files or folders</u>. If you select scanning of specific files or folders, in the bottom part of this dialog the displayed tree structure activates and you can specify the folders to be scanned.



8.8.2. Virus Database Update Schedule



On the **Schedule settings** tab you can first check/uncheck the **Enable this task** item to simply deactivate the scheduled virus database update temporarily, and switch it on again as the need arises. The basic virus database update scheduling is covered within the **Update Manager** component. Within this dialog you can set up some detailed parameters of the virus database update schedule. In the text field called **Name** (deactivated for all default schedules) there is the name assigned to this very schedule by the program vendor.

Schedule running

In this section, specify the time intervals for the newly scheduled virus database update launch. For **AVG Anti-Virus Free Edition 2011**, there is only the **Run at specific time interval** option available. This option is set to make sure the updates get downloaded at least once a day, in a time period of two hours. However, you may specify the starting time of this time interval.

Advanced schedule options



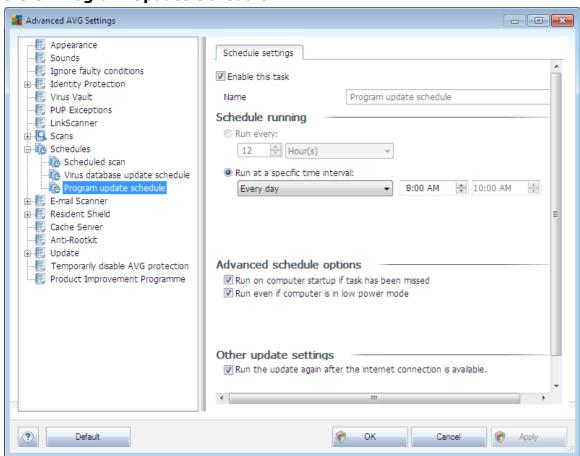
This section allows you to define under which conditions the virus database update should/should not be launched if the computer is in low power mode or switched off completely.

Other update settings

Finally, check the **Run the update again as soon as the Internet connection is available** option to make sure than if the internet connection gets corrupted and the update process fails, it will be launched again immediately after the internet connection is restored.

Once the scheduled update is launched in the time you have specified, you will be informed on this fact via a pop-up window opened over the <u>AVG system tray icon</u> (provided that you have kept the default configuration of the the **Advanced Settings/Appearance** dialog).

8.8.3. Program Update Schedule



On the **Schedule settings** tab you can first check/uncheck the **Enable this task** item to simply deactivate the scheduled program update temporarily, and switch it on again as the need arises. In the text field called **Name** (deactivated for all default schedules



There is the name assigned to this very schedule by the program vendor.

Schedule running

Here, specify the time intervals for the newly scheduled program update launch. The timing can either be defined by the repeated update launch after a certain period of time (*Run every ...*) or by defining an exact date and time (*Run at specific time ...*), or possibly by defining an event that the update launch should be associated with (*Action based on computer startup*).

Advanced schedule options

This section allows you to define under which conditions the program update should/ should not be launched if the computer is in low power mode or switched off completely.

Other update settings

Check the **Run the update again as soon as the Internet connection is available** option to make sure than if the internet connection gets corrupted and the update process fails, it will be launched again immediately after the internet connection is restored.

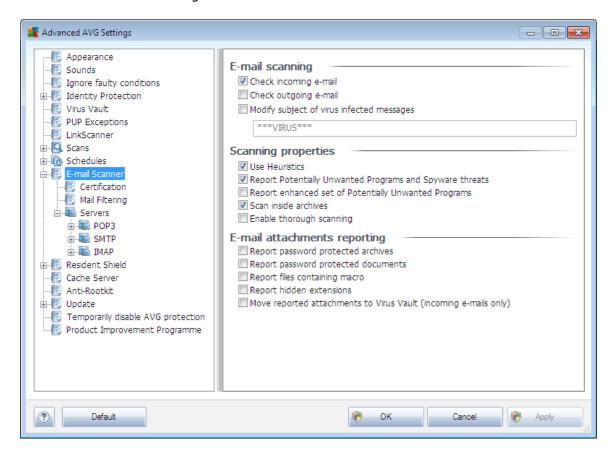
Once the scheduled update is launched in the time you have specified, you will be informed on this fact via a pop-up window opened over the <u>AVG system tray icon</u> (provided that you have kept the default configuration of the the **Advanced Settings/Appearance** dialog).

Note: If a time coincidence of a scheduled program update and scheduled scan occurs, the update process is of higher priority and the scan will get interrupted.



8.9. E-mail Scanner

The **E-mail Scanner** dialog is divided into three sections:



E-mail scanning

In this section, you can set these basics for incoming and/or outgoing e-mail messages:

- Check incoming e-mail (on by default) mark to switch on/off the option of scanning of all e-mail messages delivered to your e-mail client
- Check outgoing e-mail (off by default) mark to switch on/off the option of scanning of all e-mails sent from your account
- Modify subject of virus infected messages (off by default) if you want to be warned the scanned e-mail message was detected as infectious, mark this item and fill in the desired text into the text field. This text will then be added to the "Subject" field for each detected e-mail message for easier identification and filtering. The default value is ***VIRUS*** which we recommend to keep.

Scanning properties



In this section, you can specify how the e-mail messages will be scanned:

- **Use Heuristics** (on by default) check to use <u>heuristics detection method</u> when scanning e-mail messages. When this option is on, you can filter e-mail attachments not only by extension but also the actual contents of the attachment will be considered. The filtering can be set in the **Mail Filtering** dialog.
- Report Potentially Unwanted Programs and Spyware threats (on by default) check to activate the Anti-Spyware engine, and scan for spyware as well as for viruses. Spyware represents a questionable malware category: even though it usually represents a security risk, some of these programs can be installed intentionally. We recommend to keep this feature activated as it increases your computer security.
- Report enhanced set of Potentially Unwanted Programs (off by default) mark to detect extended package of spyware: programs that are perfectly ok and harmless when acquired from the manufacturer directly, but can be misused for malicious purposes later. This is an additional measure that increases your computer security even more, however it can possibly block legal programs, and is therefore switched off by default.
- **Scan inside archives** (on by default) check to scan contents of archives attached to e-mail messages.
- Enable thorough scanning (off by default) in specific situations (e.g. suspicious of your computer being infected by an virus or exploit) you may check this option to activate the most thorough scanning algorithms that will scan even those areas of your computer that can hardly get infected, just to be absolutely sure. Remember though that this method is rather time consuming.

E-mail attachments reporting

In this section, you can set additional reports about potentially dangerous or suspicious files. Please note that no warning dialog will be displayed, only a certification text will be added to the end of the e-mail message, and all such reports will be listed in the E-mail Scanner detection dialog:

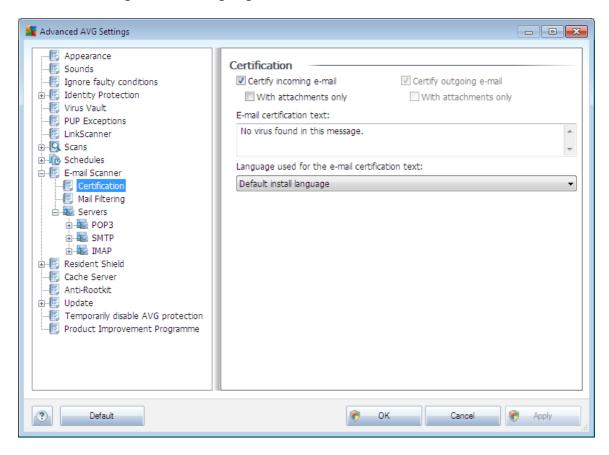
- **Report password protected archives** archives (*ZIP, RAR etc.*) that are protected by password are not possible to scan for viruses; check the box to report these as potentially dangerous.
- **Report password protected documents** documents protected by password are not possible to scan for viruses; check the box to report these as potentially dangerous.
- **Report files containing macros** a macro is a predefined sequence of steps aimed to make certain tasks easier for a user (*MS Word macros are widely known*). As such, a macro can contain potentially dangerous instructions, and



- you might like to check the box to ensure that files with macros will be reported as suspicious.
 - **Report hidden extensions** hidden extension can make e.g. a suspicious executable file "something.txt.exe" appear as harmless plain text file "something.txt"; check the box to report these as potentially dangerous.
 - Move reported attachments to Virus Vault specify whether you wish to be
 notified via e-mail about password protected archives, password protected
 documents, macro containing files and/or files with hidden extension detected
 as an attachment of the scanned e-mail message. If such a message is
 identified during scanning, define whether the detected infectious object
 should be moved to the Virus Vault.

8.9.1. Certification

In the **Certification** dialog you can specify the text and language of the certification for both incoming mail and outgoing mail:



The certification text consists of two parts, user part and system part - see the following example: the first line represents the user part, the rest is generated automatically:

No virus found in this message.

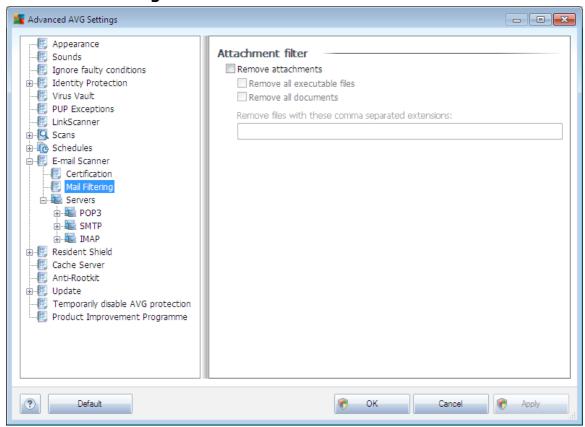


Checked by AVG.

Version: x.y.zz / Virus Database: xx.y.z - Release Date: 12/9/2010

If you decide to use certification of either incoming or outgoing e-mail messages, further in this dialog you can specify the exact wording of the user part of the certification text (*E-mail certification text*), and chose what language should be used for the automatically generated system part of the certification (*Language used for the e-mail certification text*).

8.9.2. Mail Filtering



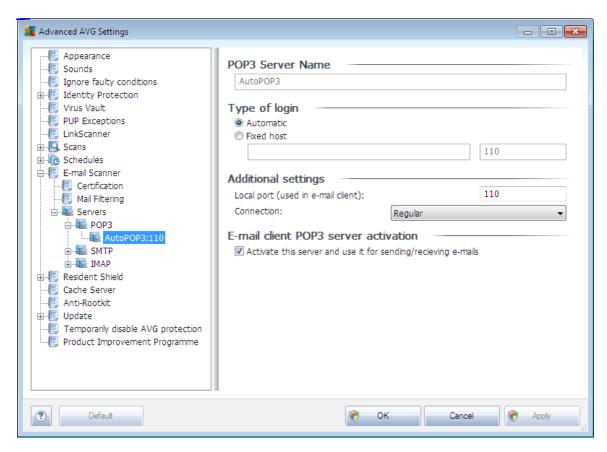
The **Attachment filter** dialog allows you to set up parameters for e-mail messages attachment scanning. By default, the **Remove attachments** option is switched off. If you decide to activate it, all e-mail message attachments detected as infectious or potentially dangerous will be removed automatically. If you want to define specific types of attachments that should be removed, select the respective option:

- Remove all executable files all *.exe files will be deleted
- Remove all documents all *.doc, *.docx, *.xls, *.xlsx files will be deleted
- Remove files with these comma separated extensions will remove all files with the defined extensions



8.9.3. Servers

In the **Servers** section you can edit parameters of the **E-mail Scanner** component servers, or set up a new server fusing the **Add new server** button.



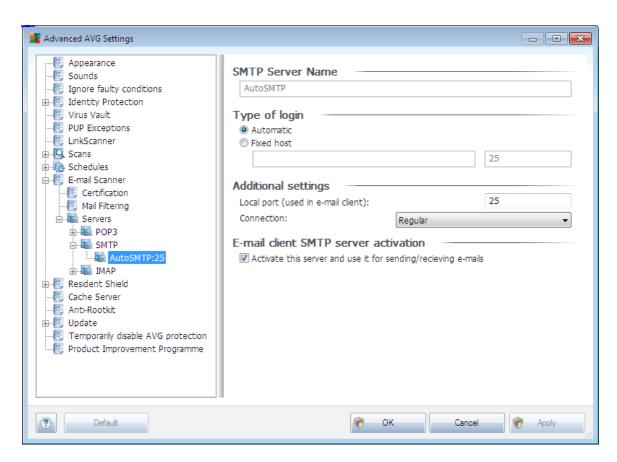
In this dialog (opened via **Servers / POP3**) you can set up a new **E-mail Scanner** server using the POP3 protocol for incoming mail:

- **POP3 Server Name** in this field you can specify the name of newly added servers (to add a POP3 server, click the right mouse button over the POP3 item of the left navigation menu). For automatically created "AutoPOP3" server this field is deactivated.
- **Type of login** defines the method for determining the mail server used for incoming mail:
 - Automatic Login will be carried out automatically, according to your email client settings.
 - o **Fixed host** In this case, the program will always use the server specified here. Please specify the address or name of your mail server. The login name remains unchanged. For a name, you may use a domain name (for example, pop.acme.com) as well as an IP address (for



example, 123.45.67.89). If the mail server uses a non-standard port, you can specify this port after the server name by using a colon as the delimiter (for example, pop.acme.com:8200). The standard port for POP3 communication is 110.

- Additional settings specifies more detailed parameters:
 - Local port specifies the port on which the communication from your mail application should be expected. You must then specify in your mail application this port as the port for POP3 communication.
 - Connection in the drop-down menu, you can specify which kind of connection to use: Regular (standard connection), SSL (secured on a reserved port), or SSL default (secured on a common port). If you choose SSL connection, the data sent is encrypted without the risk of being traced or monitored by a third party. This feature is also only available when the destination mail server supports it.
- *E-mail client POP3 server activation* check/uncheck this item to activate or deactivate the specified POP3 server



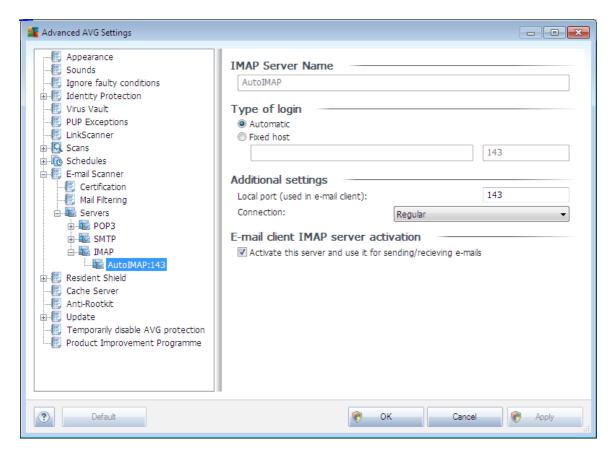
In this dialog (opened via Servers / SMTP) you can set up a new E-mail Scanner



server using the SMTP protocol for outgoing mail:

- **SMTP Server Name** in this field you can specify the name of newly added servers (to add a SMTP server, click the right mouse button over the SMTP item of the left navigation menu). For automatically created "AutoSMTP" server this field is deactivated.
- **Type of login** defines the method for determining the mail server used for outgoing mail:
 - Automatic login will be carried out automatically, according to your email client settings
 - o **Fixed host** in this case, the program will always use the server specified here. Please specify the address or name of your mail server. You may use a domain name (for example, smtp.acme.com) as well as an IP address (for example, 123.45.67.89) for a name. If the mail server uses a non-standard port, you can type this port behind the server name using a colon as the delimiter (for example, smtp.acme.com:8200). The standard port for SMTP communication is 25.
- Additional settings specifies more detailed parameters:
 - Local port specifies the port on which the communication from your mail application should be expected. You must then specify in your mail application this port as the port for SMTP communication.
 - Connection in the drop-down menu, you can specify which kind of connection to use: Regular (standard connection), SSL (secured on a reserved port), or SSL default (secured on a common port). If you choose SSL connection, the data sent is encrypted without the risk of being traced or monitored by a third party. This feature is also only available when the destination mail server supports it.
- **E-mail client SMTP server activation** check/uncheck this box to activate/ deactivate the above specified SMTP server





In this dialog (opened via **Servers / IMAP**) you can set up a new **E-mail Scanner** server using the IMAP protocol for outgoing mail:

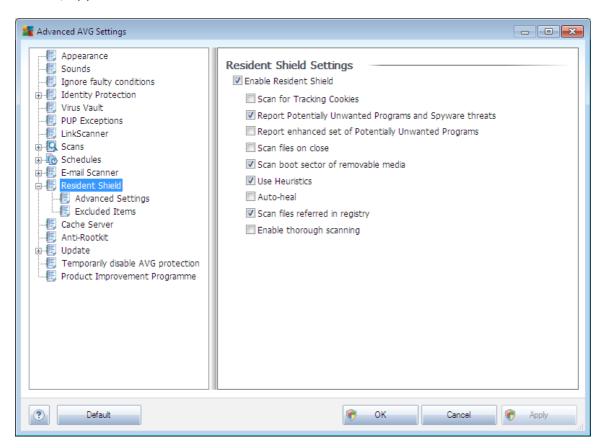
- IMAP Server Name in this field you can specify the name of newly added servers (to add a IMAP server, click the right mouse button over the IMAP item of the left navigation menu). For automatically created "AutoIMAP" server this field is deactivated.
- **Type of login** defines the method for determining the mail server used for outgoing mail:
 - Automatic login will be carried out automatically, according to your email client settings
 - o **Fixed host** in this case, the program will always use the server specified here. Please specify the address or name of your mail server. You may use a domain name (for example, smtp.acme.com) as well as an IP address (for example, 123.45.67.89) for a name. If the mail server uses a non-standard port, you can type this port behind the server name using a colon as the delimiter (for example, imap.acme.com:8200). The standard port for IMAP communication is 143.
- Additional settings specifies more detailed parameters:



- Local port specifies the port on which the communication from your mail application should be expected. You must then specify in your mail application this port as the port for IMAP communication.
- Connection in the drop-down menu, you can specify which kind of connection to use: Regular (standard connection), SSL (secured on a reserved port), or SSL default (secured on a common port). If you choose SSL connection, the data sent is encrypted without the risk of being traced or monitored by a third party. This feature is also only available when the destination mail server supports it.
- **E-mail client IMAP server activation** check/uncheck this box to activate/ deactivate the above specified SMTP server

8.10. Resident Shield

The **Resident Shield** component performs live protection of files and folders against viruses, spyware and other malware.



In the **Resident Shield Settings** dialog you can activate or deactivate the **Resident Shield** protection completely by checking/unchecking the **Enable Resident Shield** item (this option is switched on by default). In addition you can select which **Resident Shield** features should be activated:

• Scan for Tracking cookies (off by default) - this parameter defines that



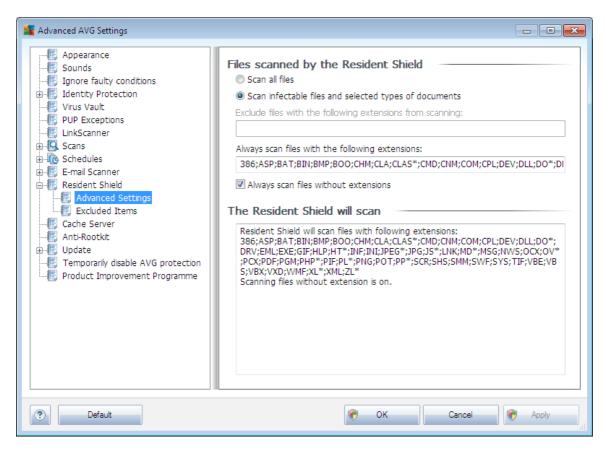
cookies should be detected during scanning. (HTTP cookies are used for authenticating, tracking, and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts)

- Report Potentially Unwanted Programs and Spyware threats (on by default): check to activate the Anti-Spyware engine, and scan for spyware as well as for viruses. Spyware represents a questionable malware category: even though it usually represents a security risk, some of these programs can be installed intentionally. We recommend to keep this feature activated as it increases your computer security.
- Report enhanced set of Potentially Unwanted Programs (off by default) mark to detect extended package of spyware: programs that are perfectly ok and harmless when acquired from the manufacturer directly, but can be misused for malicious purposes later. This is an additional measure that increases your computer security even more, however it can possibly block legal programs, and is therefore switched off by default.
- **Scan files on close** (off by default) on-close scanning ensures that AVG scans active objects (e.g. applications, documents ...) when they are being opened, and also when they are being closed; this feature helps you protect your computer against some types of sophisticated virus
- Scan boot sector of removable media (on by default)
- **Use Heuristics** (on by default) <u>heuristic analysis</u> will be used for detection (dynamic emulation of the scanned object's instructions in a virtual computer environment)
- Auto-heal (off by default) any detected infection will be healed automatically if there is a cure available, and all infection that cannot be cured will be removed.
- **Scan files referred in registry** (on by default) this parameter defines that AVG will scan all executable files added to startup registry to avoid a known infection being executed upon next computer startup.
- **Enable thorough scanning** (off by default) in specific situations (in a state of extreme emergency) you may check this option to activate the most thorough algorithms that will check all possibly threatening objects into the deep. Remember though that this method is rather time consuming.



8.10.1. Advanced Settings

In the **Files scanned by the Resident Shield** dialog it is possible to configure which files will be scanned (by specific extensions):

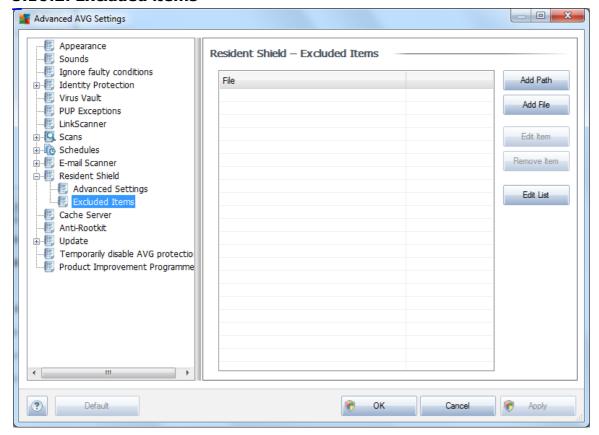


Decide whether you want all files to be scanned or just infectable files - if so, you can further specify a list of extensions defining files that should be excluded from scanning, and also a list of file extensions defining files that must be scanned under all circumstances.

The below section called **The Resident Shield will scan** further summarizes the current settings, displaying a detailed overview of what the **Resident Shield** will actually scan.



8.10.2. Excluded items



The **Resident Shield - Excluded Items** dialog offers the possibility of defining files and/or folders that should be excluded from the **Resident Shield** scanning.

If this is not essential, we strongly recommend not excluding any items!

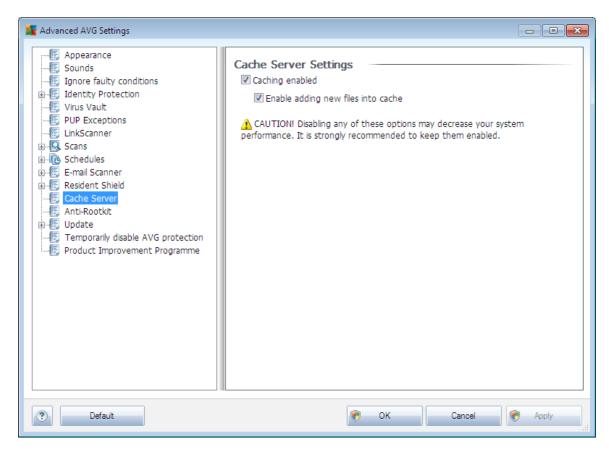
The dialog provides the following control buttons:

- **Add Path** specify a directory (directories) to be excluded from the scanning by selecting them one by one from the local disk navigation tree
- **Add File** specify files to be excluded from the scanning by selecting them one by one from the local disk navigation tree
- **Edit Item** allows you to edit the specified path to a selected file or folder
- Remove Item allows you to delete the path to a selected item from the list
- **Edit List** opens a new dialog where you can manually edit the entire list of defined exclusions just like in a text editor



8.11. Cache Server

The **Cache Server** is a process designed to speed up any scan (on-demand scan, scheduled whole computer scan, Resident Shield scan). It gathers and keeps information of trustworthy files (system files with digital signature etc.): These files are then considered safe, and during scanning are skipped.



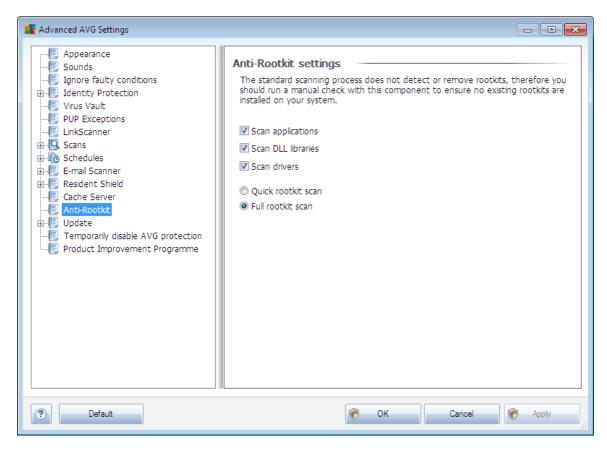
The settings dialog offers two options:

- Caching enabled (on by default) uncheck the box to switch off the Cache Server, and empty the cache memory. Please note that scanning might slow down, and overall performance of your computer decrease, as every single file in use will be scanned for viruses and spyware first.
- **Enable adding new files into cache** (on by default) uncheck the box to stop adding more files into the cache memory. Any already cached files will be kept and used until caching is turned off completely, or until the next update of the virus database.



8.12. Anti-Rootkit

In this dialog you can edit the **Anti-Rootkit** component's configuration:



Editing of all functions of the **Anti-Rootkit** component as provided within this dialog is also accessible directly from the **Anti-Rootkit** component's interface.

Mark up the respective check-boxes to specify objects that should be scanned:

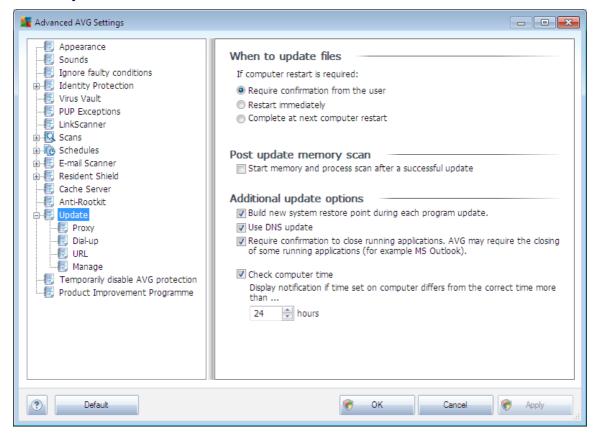
- Scan applications
- Scan DLL libraries
- Scan drivers

Further you can pick the rootkit scanning mode:

- **Quick rootkit scan** scans all running processes, loaded drivers and the system folder (typically c:\Windows)
- **Full rootkit scan** scans all running processes, loaded drivers, the system folder (typically c:\Windows), plus all local disks (including the flash disk, but excluding floppy disk/CD drives)



8.13. **Update**



The **Update** navigation item opens a new dialog where you can specify general parameters regarding the <u>AVG update</u>:

When to update files

In this section you can select between two alternative options: <u>update</u> can be scheduled for the next PC restart or you can launch the <u>update</u> immediately. By default, the immediate update option is selected since this way AVG can secure the maximum safety level. Scheduling an update for the next PC restart can only be recommended if you are sure the computer gets restarted regularly, at least daily.

If you decide to keep the default configuration and launch the update process immediately, you can specify the circumstances under which a possible required restart should be performed:

- Require confirmation from the user you will be asked to approve a PC restart needed to finalize the <u>update process</u>
- Restart immediately the computer will be restarted automatically immediately after the <u>update process</u> has finished, and your approval will not be required



• Complete at next computer restart - the <u>update process</u> finalization will be postponed until the next computer restart - again, please keep in mind that this option is only recommended if you can be sure the computer gets restarted regularly, at least daily

Post update memory scan

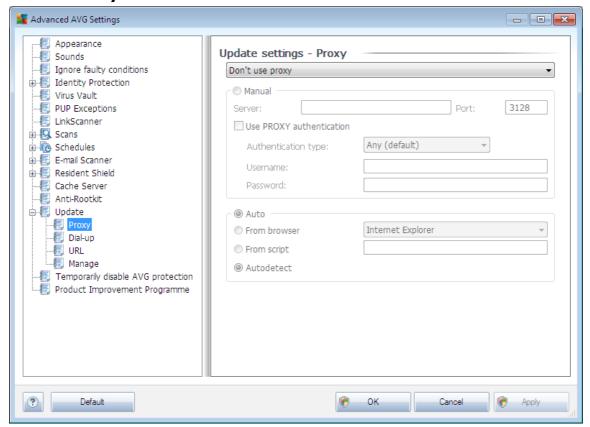
Mark this check box to define you want to launch a new memory scan after each successfully completed update. The latest downloaded update might have contained new virus definitions, and these could be applied in the scanning immediately.

Additional update options

- Build new system restore point during each program update before each AVG program update launch, a system restore point is created. In case the update process fails and your operating system crashes you can always restore your OS in its original configuration from this point. This option is accessible via Start / All Programs / Accessories / System tools / System Restore, but any changes can be recommended to experienced users only! Keep this check-box ticked if you want to make use of this functionality.
- Use DNS update (on by default) with this item marked, once the update is launched, your AVG Anti-Virus Free Edition 2011 looks up the information about the latest virus database version and the latest program version on the DNS server. Then only the smallest indispensably required update files are downloaded, and applied. This way the total amount of data downloaded is minimized, and the update process runs faster.
- Require confirmation to close running applications (on by default) will help you make sure no currently running applications will be closed without your permission if required for the update process to be finalized;
- Check computer time mark this option to declare you wish to have notification displayed in case the computer time differs from the correct time more than specified number of hours.



8.13.1. Proxy



The proxy server is a stand-alone server or a service running on a PC that guarantees safer connection to the Internet. According to the specified network rules you can then access the Internet either directly or via the proxy server; both possibilities can also be allowed at the same time. Then, in the first item of the **Update settings** - **Proxy** dialog you have to select from the combo box menu whether you want to:

- Use proxy
- Do not use proxy server default settings
- Try connection using proxy and if it fails, connect directly

If you select any option using proxy server, you will have to specify some further data. The server settings can be configured either manually or automatically.

Manual configuration

If you select manual configuration (check the **Manual** option to activate the respective dialog section) you have to specify the following items:

• Server – specify the server's IP address or the name of the server



• **Port** – specify the number of the port that enables Internet access (by default, this number is set to 3128 but can be set differently – if you are not sure, contact your network administrator)

The proxy server can also have configured specific rules for each user. If your proxy server is set up this way, check the **Use PROXY authentication** option to verify that your user name and password are valid for connecting to the Internet via the proxy server.

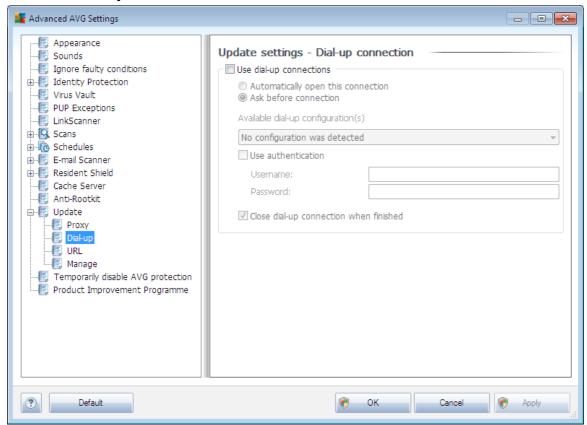
Automatic configuration

If you select automatic configuration (mark the **Auto** option to activate the respective dialog section) then please select where the proxy configuration should be taken from:

- From browser the configuration will be read from your default internet browser
- **From script** the configuration will be read from a downloaded script with the function returning the proxy address
- **Autodetect** the configuration will be detected automatically directly from the proxy server



8.13.2. Dial-up

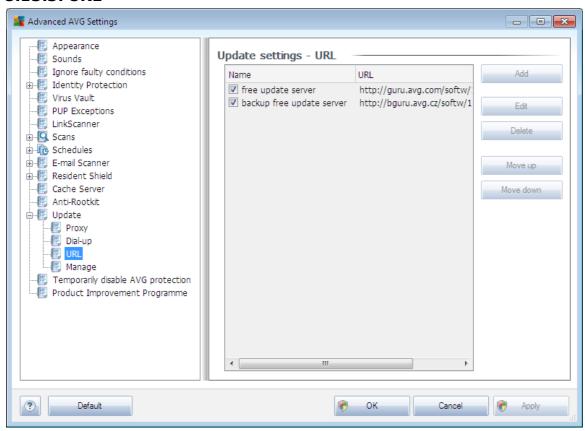


All parameters optionally defined in the **Update settings - Dial-Up connection** dialog refer to the dial-up connection to the Internet. The dialog's fields are inactive until you check the **Use dial-up connections** option that activates the fields.

Specify whether you want to connect to the Internet automatically (**Automatically open this connection**) or you wish to confirm the connection manually every time (**Ask before connection**). For automatic connection you should further select whether the connection should be closed after the update is finished (**Close dial-up connection when finished**).



8.13.3. URL

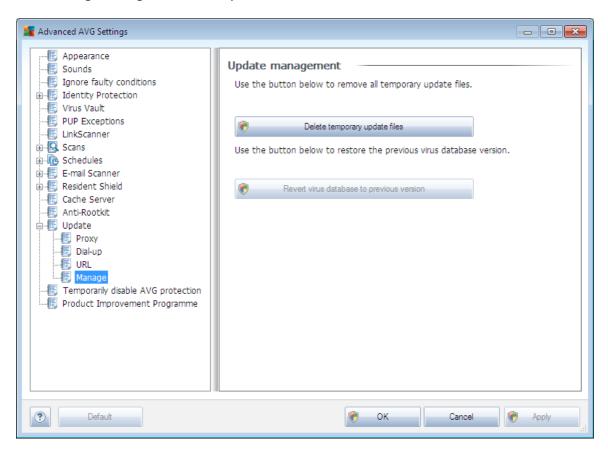


The **URL** dialog offers a list of Internet addresses from which the update files can be downloaded. Within **AVG Anti-Virus Free Edition 2011**, the list and its items cannot be edited. This option is only available for AVG Professional editions. Therefore, all buttons available in this dialog appear as inactive.



8.13.4. Manage

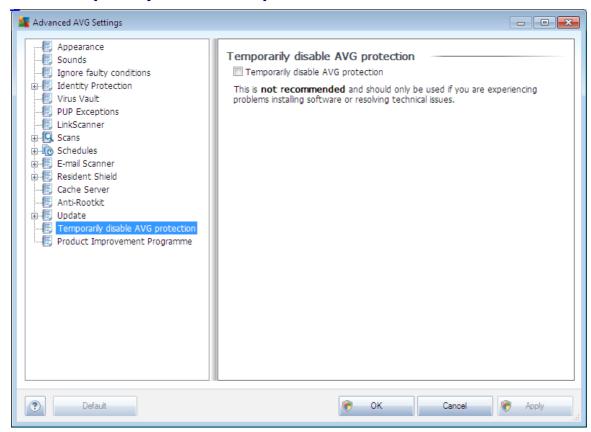
The Manage dialog offers two options accessible via two buttons:



- **Delete temporary update files** press this button to delete all redundant update files from your hard disk (by default, these files are being saved for 30 days)
- Revert virus database to previous version press this button to delete the latest virus base version from your hard disk, and to return to the previously saved version (new virus base version will be a part of the following update)



8.14. Temporarily disable AVG protection



In the **Temporarily disable AVG protection** dialog you have the option of switching off the entire protection secured by your **AVG Anti-Virus Free Edition 2011** at once.

Please remember that you should not use this option unless it is absolutely necessary!

In most cases, it is **not necessary** to disable AVG before installing new software or drivers, not even if the installer or software wizard suggests that running programs and applications be shut down first to make sure there are no unwanted interruptions during the installation process. Should you really experience problem during installation, try to deactivate the **Resident Shield** component first. If you do have to temporarily disable AVG, you should re-enable it as soon as you're done. If you are connected to the Internet or a network during the time your antivirus software is disabled, your computer is vulnerable to attacks.

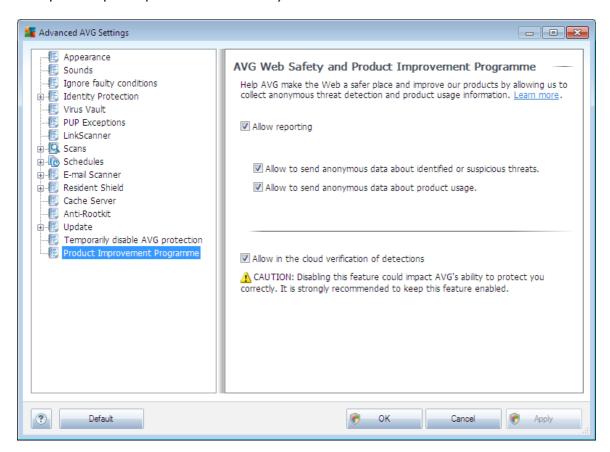
8.15. Product Improvement Programme

The **AVG Web Safety and Product Improvement Programme** dialog invites you to participate in AVG product improvement, and to help us increase the overall Internet security level. Mark the **Allow reporting** option (and one or both of the subordinated groups of information) to enable reporting of detected threats to AVG. This helps us



to collect up-to-date information on the latest threats from all participants worldwide, and in return we can improve protection for everyone.

The reporting is taken care of automatically, therefore does not cause you any inconvenience, and no personal data is included in the reports. Reporting of detected threats is optional, however, we do ask you to keep this feature on, too, as it helps us improve protection for both you and other AVG users.



Nowadays, there are far more threats out there than plain viruses. Authors of malicious codes and dangerous websites are very innovative, and new kinds of threats emerge quite often, the vast majority of which are on the Internet. Here are some of the most common:

- A virus is a malicious code that copies and spreads itself, often unnoticed until the damage is done. Some viruses are a serious threat, deleting or deliberately changing files on their way, while some viruses can do something seemingly harmless, like playing a piece of music. However, all viruses are dangerous due to the basic ability of multiplying even a simple virus can take up all the computer memory in an instant, and cause a breakdown.
- **A worm** is a subcategory of virus which, unlike a normal virus, does not need a "carrier" object to attach to; it sends itself to other computers self-contained, usually via e-mail, and as a result often overloads e-mail servers and network systems.



- **Spyware** is usually defined as a malware category (*malware* = *any malicious* software, including viruses) encompassing programs typically Trojan horses aimed at stealing personal information, passwords, credit card numbers, or infiltrating a computer and allowing the attacker to control it remotely; of course, all without the computer owner's knowledge or consent.
- **Potentially unwanted programs** are a type of spyware that can be may but not necessarily have to be dangerous to your computer. A specific example of a PUP is adware, software designed to distribute advertisements, usually by displaying ad pop-ups.
- **Tracking cookies** can also be considered a kind of spyware, as these small files, stored in the web browser and sent automatically to the "parent" website when you visit it again, can contain data such as your browsing history and other similar information.
- **Exploit** is a malicious code that takes advantage of a flaw or vulnerability in an operating system, Internet browser, or other essential program.
- **Phishing** is an attempt to acquire sensitive personal data by shamming a trustworthy and well-known organization. Usually, the potential victims are contacted by a bulk e-mail asking them to e.g. update their bank account details. In order to do that, they are invited to follow the link provided which then leads to a fake website of the bank.
- **Hoax** is a bulk e-mail containing dangerous, alarming or just bothering and useless information. Many of the above threats use hoax e-mail messages to spread.
- **Malicious websites** are ones that deliberately install malicious software on your computer, and hacked sites do just the same, only these are legitimate websites that have been compromised into infecting visitors.

To protect you from all of these different kinds of threats, AVG includes these specialized components:

- Anti-Virus to protect your computer from viruses,
- Anti-Spyware to protect your computer from spyware,
- *LinkScanner* to protect you from other online threats mentioned in this chapter.



9. AVG Scanning

Scanning is a crucial part of **AVG Anti-Virus Free Edition 2011** functionality. You can run on-demand tests or schedule them to run periodically at convenient times.

9.1. Scanning Interface



The AVG scanning interface is accessible via the **Scan options** <u>quick link</u>. Click this link to switch to the **Scan for threats** dialog. In this dialog you will find the following:

- overview of <u>predefined scans</u> three types of scans defined by the software vendor are ready to be used immediately on demand or scheduled:
 - o Whole computer scan
 - o Scan specific files or folders
 - o Anti-Rootkit scan
- scan scheduling section where you can define new tests and create new schedules as needed.

Control buttons

Control buttons available within the testing interface are the following:

• **Scan history** - displays the **Scan results overview** dialog with the entire history of scanning



• **View Virus Vault** - opens a new window with the **Virus Vault** - a space where detected infections are quarantined

9.2. Predefined Scans

One of the main features of **AVG Anti-Virus Free Edition 2011** is on-demand scanning. On-demand tests are designed to scan various parts of your computer whenever suspicion of possible virus infection arises. Anyway, it is strongly recommended to carry out such tests regularly even if you think that no virus can be found on your computer.

In the **AVG Anti-Virus Free Edition 2011** you will find the following types of scanning predefined by the software vendor:

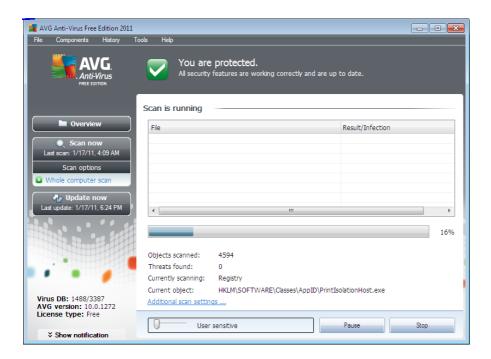
9.2.1. Whole Computer Scan

Whole Computer scan - scans your entire computer for possible infections and/or potentially unwanted programs. This test will scan all hard drives of your computer, will detect and heal any virus found, or remove the detected infection to the **Virus Vault**. Scanning of the whole of your computer should be scheduled on a workstation at least once a week.

Scan launch

The **Whole Computer scan** can be launched directly from the <u>scanning interface</u> by clicking on the scan's icon. No further specific settings have to be configured for this type of scan, the scanning will start immediately within the **Scan is running** dialog (see screenshot). The scanning can be temporarily interrupted (**Pause**) or canceled (**Stop**) if needed.





Scan configuration editing

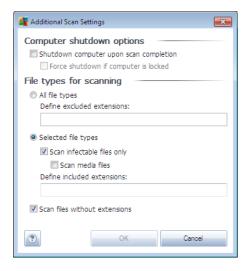
You have the option of editing the predefined default settings of the **Whole** computer scan. Press the **Change scan settings** link to get to the **Change scan settings for Whole Computer scan** dialog (accessible from the scanning interface via the Change scan settings link for the Whole computer scan). It is recommended to keep to the default settings unless you have a valid reason to change them!





- **Scanning parameters** in the list of scanning parameters you can switch on/ off specific parameters as needed:
 - Automatically heal/remove infection (on by default) if a virus is identified during scanning it can be healed automatically if a cure is available. If the infected file cannot be healed automatically, the infected object will be moved to the Virus Vault.
 - Report Potentially Unwanted Programs and Spyware threats (on by default) check to activate the Anti-Spyware engine, and scan for spyware as well as for viruses. Spyware represents a questionable malware category: even though it usually represents a security risk, some of these programs can be installed intentionally. We recommend to keep this feature activated as it increases your computer security.
 - Report enhanced set of Potentially Unwanted Programs (off by default) - mark to detect extended package of <u>spyware</u>: programs that are perfectly ok and harmless when acquired from the manufacturer directly, but can be misused for malicious purposes later. This is an additional measure that increases your computer security even more, however it can possibly block legal programs, and is therefore switched off by default.
 - Scan for Tracking Cookies (off by default) this parameter of the Anti-Spyware component defines that cookies should be detected; (HTTP cookies are used for authenticating, tracking, and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts).
 - o **Scan inside archives** (off by default) this parameters defines that scanning should check all files stored inside archives, e.g. ZIP, RAR, ...
 - o **Use Heuristics** (on by default) heuristic analysis (dynamic emulation of the scanned object's instructions in a virtual computer environment) will be one of the methods used for virus detection during scanning.
 - o **Scan system environment** (on by default) scanning will also check the system areas of your computer.
 - Enable thorough scanning (off by default) in specific situations (suspicious of your computer being infected) you may check this option to activate the most thorough scanning algorithms that will scan even those areas of your computer that can hardly get infected, just to be absolutely sure. Remember though that this method is rather time consuming.
- Additional scan settings the link opens a new Additional scan settings dialog where you can specify the following parameters:

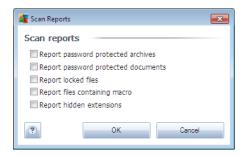




- Computer shutdown options decide whether the computer should be shut down automatically once the running scanning process is over. Having confirmed this option (Shutdown computer upon scan completion), a new option activates that allows the computer to shut down even if it is currently locked (Force shutdown if computer is locked).
- Define file types for scanning further you should decide whether you want to have scanned:
 - > **All file types** with the possibility of defining exceptions from scanning by providing a list of comma separated file extensions that should not be scanned;
 - > Selected file types you can specify that you want to scan only files that are possibly infectable (files that cannot get infected will not be scanned, for instance some plain text files, or some other non-executable files), including media files (video, audio files if you leave this box unchecked, it will reduce the scanning time even more, because these files are often quite large and are not too likely to be infected by a virus). Again, you can specify by extensions which files are those that should always be scanned.
 - Optionally, you can decide you want to Scan files without extension this option is on by default, and it is recommended that you keep it so unless you have a real reason to change it. Files with no extension are rather suspicious and should be scanned at all times.
- Adjust how quickly Scan completes you can use the slider to change the scanning process priority. By default, this option value is set to User sensitive level, which means that minimum resources are used while you work with your PC, and the scan runs in the high priority mode while you are away. Alternatively, you can run the scanning process slower which means the system resources load will be minimized (useful when you need to work on the computer but you do not care so much how long the scanning takes), or



- faster with increased system resources requirements (e.g. when the computer is temporarily unattended).
- **Set additional scan reports** the link opens a new **Scan reports** dialog where you can select what types of possible findings should be reported:



Warning: These scan settings are identical to the parameters of a newly defined scan - as described in the chapter **AVG Scanning / Scan scheduling/ How to Scan**. Should you decide to change the default configuration of the **Scan the whole computer** you can then save your new setting as the default configuration to be used for all further scans of the whole computer.

9.2.2. Scan Specific Files or Folders

Scan specific files or folders - scans only those areas of your computer that you have selected to be scanned (selected folders, hard disks, floppy discs, CDs, etc.). The scanning progress in case of virus detection and its treatment is the same as with the scan of the whole computer: any virus found is healed or removed to the **Virus Vault**. Specific files or folders scanning can be used to set up your own tests and their scheduling based on your needs.

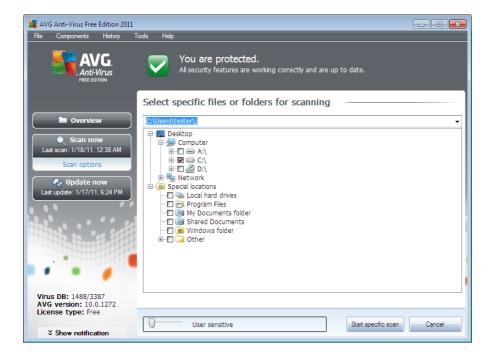
Scan launch

The **Scan of specific files or folders** can be launched directly from the <u>scanning interface</u> by clicking on the scan's icon. A new dialog called **Select specific files or folders for scanning** opens. In the tree structure of your computer select those folders you want to have scanned. The path to each selected folder will generate automatically and appear in the text box in the upper part of this dialog.

There is also a possibility of having a specific folder scanned while all its subfolders are excluded from this scanning; to do that write a minus sign "-" in front of the automatically generated path (see screenshot). To exclude the entire folder from scanning use the "!" parameter.

Finally, to launch the scanning, press the **Start scan** button; the scanning process itself is basically identical to the <u>Whole computer scan</u>.





Scan configuration editing

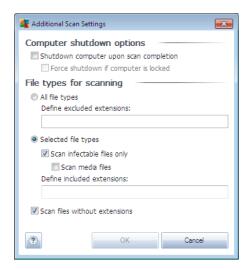
You have the option of editing the predefined default settings of the **Scan of specific** files or folders. Press the **Change scan settings** link to get to the **Change scan settings** for **Scan of specific files or folders** dialog. It is recommended to keep to the default settings unless you have a valid reason to change them!





- **Scanning parameters** in the list of scanning parameters you can switch on/ off specific parameters as needed:
 - Automatically heal/remove infection (on by default) if a virus is identified during scanning it can be healed automatically if a cure is available. If the infected file cannot be healed automatically, the infected object will be moved to the Virus Vault.
 - Report Potentially Unwanted Programs and Spyware threats (on by default) check to activate the Anti-Spyware engine, and scan for spyware as well as for viruses. Spyware represents a questionable malware category: even though it usually represents a security risk, some of these programs can be installed intentionally. We recommend to keep this feature activated as it increases your computer security.
 - o **Report enhanced set of Potentially Unwanted Programs** (off by default) mark to detect extended package of <u>spyware</u>: programs that are perfectly ok and harmless when acquired from the manufacturer directly, but can be misused for malicious purposes later. This is an additional measure that increases your computer security even more, however it can possibly block legal programs, and is therefore switched off by default.
 - Scan for Tracking Cookies (off by default) this parameter of the Anti-Spyware component defines that cookies should be detected; (HTTP cookies are used for authenticating, tracking, and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts).
 - o **Scan inside archives** (on by default) this parameters defines that scanning should check all files stored inside archives, e.g. ZIP, RAR, ...
 - o **Use Heuristics** (off by default) heuristic analysis (dynamic emulation of the scanned object's instructions in a virtual computer environment) will be one of the methods used for virus detection during scanning.
 - o **Scan system environment** (off by default) scanning will also check the system areas of your computer.
 - Enable thorough scanning (off by default) in specific situations (suspicious of your computer being infected) you may check this option to activate the most thorough scanning algorithms that will scan even those areas of your computer that can hardly get infected, just to be absolutely sure. Remember though that this method is rather time consuming.
- Additional scan settings the link opens a new Additional scan settings dialog where you can specify the following parameters:





- Computer shutdown options decide whether the computer should be shut down automatically once the running scanning process is over. Having confirmed this option (Shutdown computer upon scan completion), a new option activates that allows the computer to shut down even if it is currently locked (Force shutdown if computer is locked).
- Define file types for scanning further you should decide whether you want to have scanned:
 - ➤ **All file types** with the possibility of defining exceptions from scanning by providing a list of comma separated file extensions that should not be scanned;
 - ➤ Selected file types you can specify that you want to scan only files that are possibly infectable (files that cannot get infected will not be scanned, for instance some plain text files, or some other non-executable files), including media files (video, audio files if you leave this box unchecked, it will reduce the scanning time even more, because these files are often quite large and are not too likely to be infected by a virus). Again, you can specify by extensions which files are those that should always be scanned.
 - > Optionally, you can decide you want to **Scan files without extension** this option is on by default, and it is recommended that you keep it so unless you have a real reason to change it. Files with no extension are rather suspicious and should be scanned at all times.
- Scan process priority you can use the slider to change the scanning process priority. By default, this option value is set to User sensitive level, which means that minimum resources are used while you work with your PC, and the scan runs in the high priority mode while you are away. Alternatively, you can run the scanning process slower which means the system resources load will be minimized (useful when you need to work on the computer but you do not care so much how long the scanning takes), or faster with increased



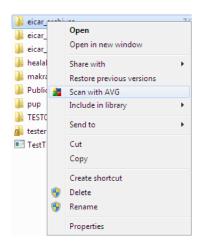
- system resources requirements (e.g. when the computer is temporarily unattended).
- **Set additional scan reports** the link opens a new **Scan Reports** dialog where you can select what types of possible findings should be reported:



Warning: These scan settings are identical to the parameters of a newly defined scan - as described in the chapter **AVG Scanning / Scan scheduling/ How to Scan**. Should you decide to change the default configuration of the **Scan specific files or folders** you can then save your new setting as the default configuration to be used for all further scans of specific files or folders. Also, this configuration will be used as a template for all of your newly scheduled scans (all customized scans are based on the current configuration of the Scan of selected files or folders).

9.3. Scanning in Windows Explorer

Besides the pre-defined scans launched for the entire computer or its selected areas, **AVG Anti-Virus Free Edition 2011** also offers the option of quick scanning of a specific object directly in the Windows Explorer environment. If you want to open an unknown file and you cannot be sure of its content, you may want to have it checked on demand. Follow these steps:



- Within Windows Explorer highlight the file (or folder) you want to check
- Right-click your mouse over the object to open the context menu



• Select the Scan with AVG option to have the file scanned with AVG

9.4. Command Line Scanning

Within **AVG Anti-Virus Free Edition 2011** there is the option of running the scan from the command line. You can use this option for instance on servers, or when creating a batch script to be launched automatically after the computer boot. From the command line, you can launch the scanning with most parameters as offered in AVG graphical user interface.

To launch AVG scan from the command line, run the following command within the folder where AVG is installed:

- avgscanx for 32 bits OS
- avgscana for 64 bits OS

Syntax of the command

The syntax of the command follows:

- avgscanx /parameter ... e.g. avgscanx /comp for scanning the whole computer
- avgscanx /parameter /parameter .. with multiple parameters these should be lined in a row and separated by a space and a slash character
- if a parameters requires specific value to be provided (e.g. the /scan parameter that requires information on what are the selected areas of your computer that are to be scanned, and you have to provide an exact path to the selected section), the values are divided by semicolons, for instance: avgscanx /scan=C:\;D:\

Scanning parameters

To display a complete overview of available parameters, type the respective command together with the parameter /? or /HELP (e.g. <code>avgscanx/?</code>). The only obligatory parameter is /SCAN to specify what areas of the computer should be scanned. For a more detailed explanation of the options, see the <u>command line parameters overview</u>.

To run the scan press **Enter**. During scanning you can stop the process by **Ctrl+C** or **Ctrl+Pause**.

CMD scanning launched from graphic interface

When you run your computer in Windows Safe Mode, there is also a possibility to launch the command line scan from the graphic user interface. The scan itself will be



launched from the command line, the **Command Line Composer** dialog only allows you to specify most scanning parameters in the comfortable graphic interface.

Since this dialog is only accessible within the Windows Safe Mode, for detailed description of this dialog please consult the help file opened directly from the dialog.

9.4.1. CMD Scan Parameters

Following please find a list of all parameters available for the command line scanning:

• /SCAN Scan specific files or folders /SCAN=path;path (e.g. / SCAN=C:\;D:\)

• /COMP Whole Computer scan

• /HEUR Use heuristic analyse

• /EXCLUDE Exclude path or files from scan

• /@ Command file /file name/

• /EXT Scan these extensions /for example EXT=EXE,DLL/

/NOEXT
 Do not scan these extensions /for example NOEXT=JPG/

• /ARC Scan archives

• /CLEAN Clean automatically

• /TRASH Move infected files to the Virus Vault

• /QT Quick test

• /MACROW Report macros

• /**PWDW** Report password-protected files

• /IGNLOCKED Ignore locked files

• /REPORT Report to file /file name/

• /REPAPPEND Append to the report file

• /REPOK Report uninfected files as OK

• /NOBREAK Do not allow CTRL-BREAK to abort

• /BOOT Enable MBR/BOOT check

• /PROC Scan active processes



• /PUP Report "Potentially unwanted programs"

• /REG Scan registry

• /COO Scan cookies

• /? Display help on this topic

• /HELP Display help on this topic

• /PRIORITY Set scan priority /Low, Auto, High/ (see Advanced

settings / Scans)

• /SHUTDOWN Shutdown computer upon scan completion

• /FORCESHUTDOWN Force computer shutdown upon scan completion

• /ADS Scan Alternate Data Streams (NTFS only)

• /ARCBOMBSW Report re-compressed archive files

9.5. Scan Scheduling

With **AVG Anti-Virus Free Edition 2011** you can run scanning on demand (for instance when you suspect an infection has been dragged to your computer) or based on a scheduled plan. It is highly recommended to run the scans based on a schedule: this way you can make sure your computer is protected from any possibility of getting infected, and you will not have to worry about if and when to launch the scan.

You should launch the **Whole Computer scan** regularly, at least once a week. However, if possible, launch the scan of your entire computer daily - as set up in the scan schedule default configuration. If the computer is "always on" then you can schedule scans out of working hours. If the computer is sometimes switched off, then schedule scans to occur on a computer start-up when the task has been missed.

To create new scan schedules, see the <u>AVG scanning interface</u> and find the bottom section called *Schedule scans*:





Schedule scans

Click the graphical icon within the **Schedule scans** section to open a new **Schedule scans** dialog where you find a list of all currently scheduled scans.



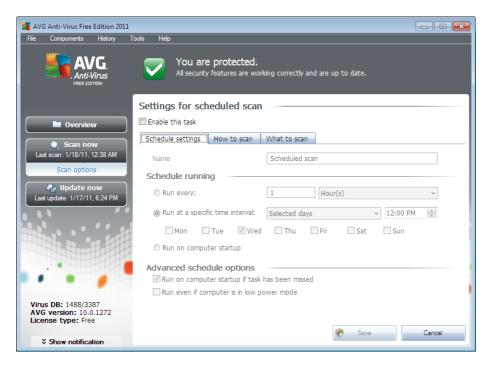
You can edit / add scans using the following control buttons:



- Add scan schedule in AVG Anti-Virus Free Edition 2011 this button is deactivated. Adding user defined schedules is only possible in AVG Professional editions.
- Edit scan schedule this button can only be used if you have already previously selected an existing test from the list of scheduled tests. In that case the button appears as active and you can click it to switch to the Settings for scheduled scan dialog, Schedule settings tab. Parameters of the selected test are already specified in here and can be edited.
- **Delete scan schedule** this button is also active if you have already previously selected an existing test from the list of scheduled tests. This test can then be deleted from the list by pressing the control button. However, you can only remove your own tests; the **Whole computer scan schedule** predefined within the default settings can never be deleted.
- Back return to AVG scanning interface

9.5.1. Schedule Settings

If you wish to edit and existing scan and its regular launch, enter the **Settings for scheduled test** dialog (click the **Edit scan schedule** button within the **Schedule scans** dialog). The dialog is divided into three tabs: **Schedule settings** - see picture below (the default tab that you will be automatically redirected to), **How to scan** and **What to scan**.



On the **Schedule settings** tab you can first check/uncheck the **Enable this task** item to simply deactivate the scheduled test temporarily, and switch it on again as the need arises.



In **AVG Anti-Virus Free Edition 2011**, the **Name** option is given by default, and cannot be edited. It is possible to change names of user defined scans but these are only accessible in AVG Professional editions.

In this dialog you can further define the following parameters of the scan:

- Schedule running specify the time intervals for the newly scheduled scan launch. The timing can either be defined by the repeated scan launch after a certain period of time (Run every ...) or by defining an exact date and time (Run at specific time ...), or possibly by defining an event that the scan launch should be associated with (Action based on computer startup).
- Advanced schedule options this section allows you to define under which conditions the scan should/should not be launched if the computer is in low power mode or switched off completely.

Control buttons of the Settings for scheduled scan dialog

There are two control buttons available on all three tabs of the **Settings for scheduled scan** dialog (**Schedule settings**, **How to scan** and **What to scan**) and these have the same functionality no matter on which tab you currently are:

- **Save** saves all changes you have performed on this tab or on any other tab of this dialog and switches back to the <u>AVG scanning interface default dialog</u>. Therefore if you wish to configure the test parameters on all tabs, press the button to save them only after you have specified all your requirements.
- Cancel cancels any changes you have performed on this tab or on any other tab of this dialog and switches back to the <u>AVG scanning interface default</u> <u>dialog</u>.



9.5.2. How to Scan



On the **How to scan** tab you will find a list of scanning parameters that can be optionally switched on/off. By default, most parameters are switched on and the functionality will be applied during scanning. Unless you have a valid reason to change these settings we recommend to keep to the pre-defined configuration:

- Automatically heal/remove infection (on by default): if a virus is identified during scanning it can be healed automatically if a cure is available. In case the infected file cannot be healed automatically, or if you decide to switch off this option, you will be notified upon a virus detection and will have to decide what to do with the detected infection. The recommended action is to remove the infected file to the Virus Vault.
- Report Potentially Unwanted Programs and Spyware threats (on by default): check to activate the Anti-Spyware engine, and scan for spyware as well as for viruses. Spyware represents a questionable malware category: even though it usually represents a security risk, some of these programs can be installed intentionally. We recommend to keep this feature activated as it increases your computer security.
- Report enhanced set of Potentially Unwanted Programs (off by default): mark to detect extended package of spyware: programs that are perfectly ok and harmless when acquired from the manufacturer directly, but can be misused for malicious purposes later. This is an additional measure that increases your computer security even more, however it can possibly block legal programs, and is therefore switched off by default.
- Scan for Tracking Cookies (off by default): this parameter of the Anti-Spyware component defines that cookies should be detected during scanning

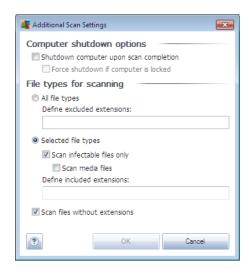


(HTTP cookies are used for authenticating, tracking, and maintaining specific information about users, such as site preferences or the contents of their electronic shopping carts).

- **Scan inside archives** (off by default): this parameters defines that the scanning should check all files even if these are packed inside some type of archive, e.g. ZIP, RAR, ...
- **Use Heuristics** (on by default): heuristic analysis (dynamic emulation of the scanned object's instructions in a virtual computer environment) will be one of the methods used for virus detection during scanning.
- **Scan system environment** (on by default): scanning will also check the system areas of your computer.
- **Enable thorough scanning** (off by default) in specific situations (suspicious of your computer being infected) you may check this option to activate the most thorough scanning algorithms that will scan even those areas of your computer that can hardly get infected, just to be absolutely sure. Remember though that this method is rather time consuming.

Then, you can change the scan configuration as follows:

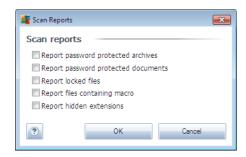
• Additional scan settings - the link opens a new Additional scan settings dialog where you can specify the following parameters:



- Computer shutdown options decide whether the computer should be shut down automatically once the running scanning process is over. Having confirmed this option (Shutdown computer upon scan completion), a new option activates that allows the computer to shut down even if it is currently locked (Force shutdown if computer is locked).
- Define file types for scanning further you should decide whether you want to have scanned:



- ➤ All file types with the possibility of defining exceptions from scanning by providing a list of comma separated file extensions that should not be scanned;
- > Selected file types you can specify that you want to scan only files that are possibly infectable (files that cannot get infected will not be scanned, for instance some plain text files, or some other non-executable files), including media files (video, audio files if you leave this box unchecked, it will reduce the scanning time even more, because these files are often quite large and are not too likely to be infected by a virus). Again, you can specify by extensions which files are those that should always be scanned.
- ➤ Optionally, you can decide you want to **Scan files without extension** this option is on by default, and it is recommended that you keep it so unless you have a real reason to change it. Files with no extension are rather suspicious and should be scanned at all times.
- Adjust how quickly Scan completes you can use the slider to change the scanning process priority. By default, this option value is set to User sensitive level, which means that minimum resources are used while you work with your PC, and the scan runs in the high priority mode while you are away. Alternatively, you can run the scanning process slower which means the system resources load will be minimized (useful when you need to work on the computer but you do not care so much how long the scanning takes), or faster with increased system resources requirements (e.g. when the computer is temporarily unattended).
- **Set additional scan reports** the link opens a new **Scan reports** dialog where you can select what types of possible findings should be reported:



Note: By default, the scanning configuration is set up for optimum performance. Unless you have a valid reason to change the scanning settings it is highly recommended to stick to the predefined configuration. Any configuration changes should be performed by experienced users only. For further scanning configuration options see the **Advanced settings** dialog accessible via the **File / Advanced setting** system menu item.

Control buttons



There are two control buttons available on all three tabs of the **Settings for scheduled scan** dialog (**Schedule settings**, **How to scan** and **What to scan**) and these have the same functionality no matter on which tab you currently are:

- **Save** saves all changes you have performed on this tab or on any other tab of this dialog and switches back to the <u>AVG scanning interface default dialog</u>. Therefore if you wish to configure the test parameters on all tabs, press the button to save them only after you have specified all your requirements.
- **Cancel** cancels any changes you have performed on this tab or on any other tab of this dialog and switches back to the <u>AVG scanning interface default dialog</u>.

9.5.3. What to Scan



On the **What to scan** tab you can define whether you want to schedule <u>scanning of</u> the whole computer or scanning of specific files or folders.

In case you select scanning of specific files or folders, in the bottom part of this dialog the displayed tree structure activates and you can specify folders to be scanned (expand items by clicking the plus node until you find the folder you wish to scan). You can select multiple folders by checking the respective boxes. The selected folders will appear in the text field on the top of the dialog, and the drop-down menu will keep your selected scans history for later use. Alternatively, you can enter full path to the desired folder manually (if you enter multiple paths, it is necessary to separate with semi-colons without extra space).

Within the tree structure you can also see a branch called **Special locations**. Following find a list of locations that will be scanned once the respective check box is marked:



- Local hard drives all hard drives of your computer
- Program files
 - C:\Program Files\
 - o in 64-bit version C:\Program Files (x86)
- My Documents folder
 - o for Win XP: C:\Documents and Settings\Default User\My Documents\
 - o for Windows Vista/7: C:\Users\user\Documents\
- Shared Documents
 - o for Win XP: C:\Documents and Settings\All Users\Documents\
 - o for Windows Vista/7: C:\Users\Public\Documents\
- Windows folder C:\Windows\
 - Other
 - System drive the hard drive on which the operating system is installed (usually C:)
 - System folder C:\Windows\System32\
 - Temporary Files folder C:\Documents and Settings\User\Local\ (
 Windows XP); or C:\Users\user\AppData\Local\Temp\ (Windows Vista/7)
 - Temporary Internet Files C:\Documents and Settings\User\Local Settings\Temporary Internet Files\ (Windows XP); or C: \Users\user\AppData\Local\Microsoft\Windows\Temporary Internet Files (Windows Vista/7)

Control buttons of the Settings for scheduled scan dialog

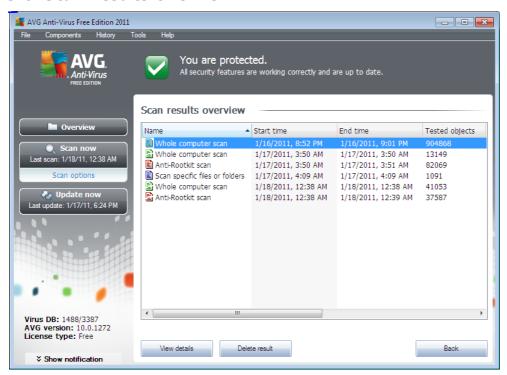
There are two control buttons available on all three tabs of the **Settings for scheduled scan** dialog (**Schedule settings**, **How to scan** and **What to scan**) and these have the same functionality no matter on which tab you currently are:

- **Save** saves all changes you have performed on this tab or on any other tab of this dialog and switches back to the <u>AVG scanning interface default dialog</u>. Therefore if you wish to configure the test parameters on all tabs, press the button to save them only after you have specified all your requirements.
- Cancel cancels any changes you have performed on this tab or on any other



tab of this dialog and switches back to the <u>AVG scanning interface default</u> <u>dialog</u>.

9.6. Scan Results Overview



The **Scan results overview** dialog is accessible from the <u>AVG scanning interface</u> via the **Scan history** button. The dialog provides a list of of all previously launched scans and information of their results:

- **Name** scan designation; it can either be the name of one of the <u>predefined</u> <u>scans</u>, or a name you have given to your <u>own scheduled scan</u>. Every name includes an icon indicating the scan result:
 - ${\color{red} \blacksquare}$ green icon informs there was no infection detected during the scan
 - blue icon announces there was an infection detected during the scan but the infected object was removed automatically
 - and it could not be removed!

Each icon can either be solid or cut in half - the solid icons stands for a scan that was completed and finished properly; the cut-in-half icon means the scan was canceled or interrupted.

Note: For detailed information on each scan please see the **Scan Results** dialog accessible via the **View details** button (in the bottom



part of this dialog).

- Start time date and time when the scan was launched
- End time date and time when the scan ended
- Tested objects number of objects that were checked during scanning
- Infections number of virus infections detected / removed
- **Spyware** number of <u>spyware</u> detected / removed
- Warnings number of detected suspicious objects
- Rootkits number of detected rootkits
- **Scan log information** information relating to the scanning course and result (typically on its finalization or interruption)

Control buttons

The control buttons for the **Scan results overview** dialog are:

- **View details** press it to switch to the **Scan results** dialog to view detailed data on the selected scan
- **Delete result** press it to remove the selected item from the scan results overview
- Back switches back to the default dialog of the AVG scanning interface

9.7. Scan Results Details

If in the **Scan Results Overview** dialog a specific scan is selected, you can then click the **View details** button to switch to the **Scan Results** dialog providing detailed data on the course and result of the selected scan.

The dialog is further divided into several tabs:

- **Results Overview** this tab is displayed at all times and provides statistical data describing the scan progress
- Infections this tab is displayed only if a <u>virus infection</u> was detected during scanning
- Spyware this tab is displayed only if spyware was detected during scanning
- Warnings this tab is displayed for instance if cookies were detected during scanning



- Rootkits this tab is displayed only if rootkits were detected during scanning
- Information this tab is displayed only if some potential threats were detected but these cannot be classified as any of the above categories; then the tab provides a warning message on the finding. Also, you will find here information on objects that could not be scanned (e.g. password protected archives).

9.7.1. Results Overview Tab



On the Scan results tab you can find detailed statistics with information on:

- detected virus infections / spyware
- removed <u>virus infections</u> / <u>spyware</u>
- the number of virus infections / spyware that cannot be removed or healed

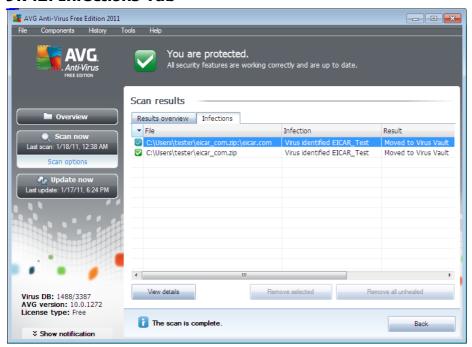
In addition you will find information on the date and exact time of the scan launch, on the total number of scanned objects, on the scanning duration and the number of errors that have occurred during scanning.

Control buttons

There is only one control button available in this dialog. The **Close results** button returns to the **Scan results overview** dialog.



9.7.2. Infections Tab



The **Infections** tab is only displayed in the **Scan results** dialog if a <u>virus infection</u> was detected during scanning. The tab is divided into three sections providing the following information:

- File full path to the original location of the infected object
- Infections name of the detected <u>virus</u> (for details on specific viruses please consult the Virus Encyclopedia online)
- **Result** defines the current status of the infected object that was detected during scanning:
 - Infected the infected object was detected and left in its original location (for instance if you have switched off the automatic healing option in a specific scan settings)
 - Healed the infected object was healed automatically and left in its original location
 - Moved to Virus Vault the infected object was moved to the Virus Vault quarantine
 - o **Deleted** the infected object was deleted
 - Added to PUP exceptions the finding was evaluated as an exception and added to the list of PUP exceptions (configured in the PUP Exceptions dialog of the advanced settings)

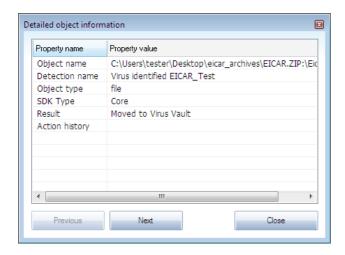


- Locked file not tested the respective object is locked and AVG is therefore unable to scan it
- Potentially dangerous object the object was detected as potentially dangerous but not infected (it can contain macros, for instance); the information should be taken as a warning only
- Reboot is required to finish the action the infected object cannot be removed, to remove it completely you have to restart your computer

Control buttons

There are three control buttons available in this dialog:

• View details - the button opens a new dialog window named **Detailed object** information:

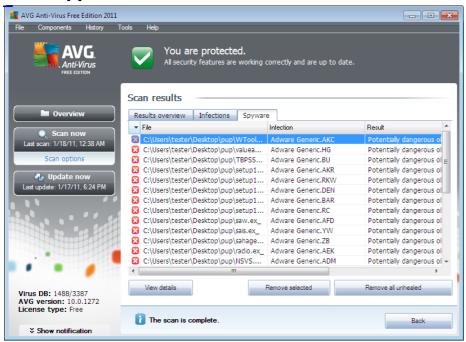


In this dialog you can find detailed information on the detected infectious object (e.g. infected object name and location, object type, SDK type, detection result and history of actions related to the detected object). Using the **Previous / Next** buttons you can view information on specific findings. Use the **Close** button to close this dialog.

- Remove selected use the button to move the selected finding to the Virus Vault
- Remove all unhealed this button deletes all findings that cannot be healed or moved to the Virus Vault
- **Close results** terminates the detailed information overview and returns to the **Scan results overview** dialog



9.7.3. Spyware Tab



The **Spyware** tab is only displayed in the **Scan results** dialog in if <u>spyware</u> was detected during scanning. The tab is divided into three sections providing the following information:

- File full path to the original location of the infected object
- Infections name of the detected <u>spyware</u> (for details on specific viruses please consult the Virus Encyclopedia online)
- **Result** defines the current status of the object that was detected during scanning:
 - Infected the infected object was detected and left in its original location (for instance if you have <u>switched off the automatic healing</u> option in a specific scan settings)
 - Healed the infected object was healed automatically and left in its original location
 - Moved to Virus Vault the infected object was moved to the Virus Vault quarantine
 - o **Deleted** the infected object was deleted
 - Added to PUP exceptions the finding was evaluated as an exception and added to the list of PUP exceptions (configured in the PUP Exceptions dialog of the advanced settings)

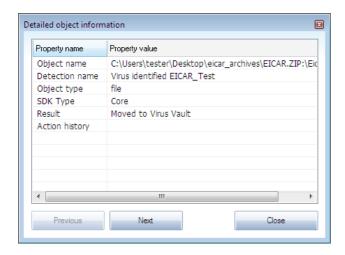


- Locked file not tested the respective object is locked and AVG is therefore unable to scan it
- Potentially dangerous object the object was detected as potentially dangerous but not infected (it can contain macros, for instance); the information is a warning only
- Reboot is required to finish the action the infected object cannot be removed, to remove it completely you have to restart your computer

Control buttons

There are three control buttons available in this dialog:

• View details - the button opens a new dialog window named **Detailed object** information:



In this dialog you can find detailed information on the detected infectious object (e.g. infected object name and location, object type, SDK type, detection result and history of actions related to the detected object). Using the **Previous / Next** buttons you can view information on specific findings. Use the **Close** button to leave this dialog.

- Remove selected use the button to move the selected finding to the Virus Vault
- Remove all unhealed this button deletes all findings that cannot be healed or moved to the Virus Vault
- **Close results** terminates the detailed information overview and returns to the **Scan results overview** dialog



9.7.4. Warnings Tab

The **Warnings** tab displays information on "suspected" objects (*typically files*) detected during scanning. When detected by the **Resident Shield**, these files are blocked from being accessed. Typical examples of this kind of findings are: hidden files, cookies, suspicious registry keys, password protected documents or archives, etc. Such files do not present any direct threat to your computer or security. Information about these files is generally useful in case there is an adware or spyware detected on your computer. If there are only Warnings detected by an AVG test, no action is necessary.

This is a brief description of the most common examples of such objects:

- Hidden files The hidden files are by default not visible in Windows, and some
 viruses or other threats may try to avoid their detection by storing their files
 with this attribute. If your AVG reports a hidden file which you suspect to be
 malicious, you can move it to your AVG Virus Vault.
- **Cookies** Cookies are plain-text files which are used by websites to store user-specific information, which is later used for loading custom website layout, pre-filling user name, etc.
- Suspicious registry keys Some malware stores its information into Windows registry, to ensure it is loaded on startup or to extend its effect on the operating system.

9.7.5. Information Tab

The *Information* tab contains data on such "findings" that cannot be categorized as infections, spyware, etc. They can neither be positively labeled as dangerous but they are still worth your attention. AVG scan is able to detect files which may not be infected, but are suspicious. These files are reported either as *Warning*, or as *Information*.

The severity *Information* can be reported for one of the following reasons:

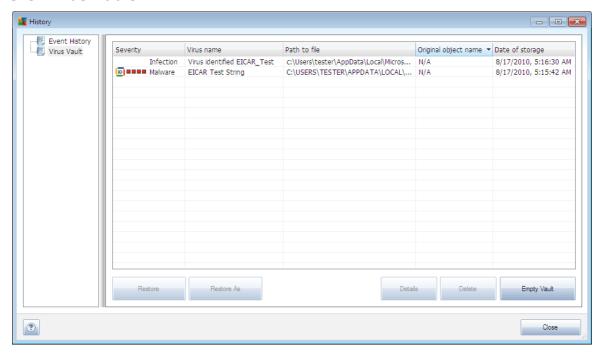
- Run-time packed The file was packed with one of less common run-time packers, which may indicate an attempt to prevent scanning of such file. However, not every report of such file indicates a virus.
- Run-time packed recursive Similar to above, however less frequent amongst common software. Such files are suspicious and their removal or submission for analysis should be considered.
- **Password protected archive or document** Password protected files can not be scanned by AVG (or generally any other anti-malware program).
- **Document with macros** The reported document contains macros, which may be malicious.
- **Hidden extension** Files with hidden extension may appear to be e.g. pictures, but in fact they are executable files (e.g. picture.jpg.exe). The



second extension is not visible in Windows by default, and AVG reports such files to prevent their accidental opening.

- Improper file path If some important system file is running from other than default path (e.g. winlogon.exe running from other than Windows folder), AVG reports this discrepancy. In some cases, viruses use names of standard system processes to make their presence less apparent in the system.
- **Locked file** The reported file is locked, thus cannot be scanned by AVG. This usually means that some file is constantly being used by the system (*e.g.* swap file).

9.8. Virus Vault



Virus Vault is a safe environment for the management of suspect/infected objects detected during AVG tests. Once an infected object is detected during scanning, and AVG is not able to heal it automatically, you are asked to decide what is to be done with the suspect object. The recommended solution is to move the object to the **Virus Vault** for further treatment. The main purpose of the **Virus Vault** is to keep any deleted file for a certain period of time, so that you can make sure you do not need the file any more in its original location. Should you find out the file absence causes problems, you can send the file in question to analysis, or restore it to the original location.

The **Virus vault** interface opens in a separate window and offers an overview of information on quarantined infected objects:

• **Severity** - in case you decided to install the **Identity Protection** component within your **AVG Anti-Virus Free Edition 2011**, a graphical identification of



- - Virus Name specifies the name of the detected infection according to the Virus Encyclopedia (online)
 - Path to file full path to the original location of the detected infectious file
 - Original object name all detected objects listed in the chart have been labeled with the standard name given by AVG during the scanning process. In case the object had a specific original name that is known (e.g. a name of an e-mail attachment that does not respond to the actual content of the attachment), it will be provided in this column.
 - Date of storage date and time the suspected file was detected and removed to the Virus Vault

Control buttons

The following control buttons are accessible from the Virus Vault interface:

- **Restore** removes the infected file back to its original location on your disk
- **Restore As** in case you decide to move the detected infectious object from the **Virus Vault** to a selected folder, use this button The suspicious and detected object will be saved with its original name. If the original name is not known, the standard name will be used.
- **Details** this button only applies to threats detected by **Identity Protection**. Upon clicking, it displays synoptic overview of the threat details (what files/processes have been affected, characteristics of the process etc.). Please note that for all other items than detected by IDP, this button is greyed out and inactive!





- **Delete** removes the infected file from the **Virus Vault** completely and irreversibly
- **Empty Vault** removes all **Virus Vault** content completely. By removing the files from the **Virus Vault**, these files are irreversibly removed from the disk (not moved to the recycle bin).



10. AVG Updates

Keeping your AVG up-to-date is crucial to ensure that all newly discovered viruses will be detected as soon as possible.

Since AVG updates are not released according to any fixed schedule but rather in reaction to amount and severity of new threats, it is recommended to check for new updates at least once a day or even more often. Only this way you can be sure your **AVG Anti-Virus Free Edition 2011** is kept up-to-date also during the day.

10.1. Update Levels

AVG offers two update levels to select from:

- **Definitions update** contains changes necessary for reliable anti-virus and anti-spyware protection. Typically, it does not include any changes to the code and updates only the definition database. This update should be applied as soon as it is available.
- **Program update** contains various program changes, fixes and improvements.

When <u>scheduling an update</u>, it is possible to select which priority level should be downloaded and applied.

Note: If a time coincidence of a scheduled program update and scheduled scan occurs, the update process is of higher priority and the scan will get interrupted.

10.2. Update Types

You can distinguish between two types of update:

- **On demand update** is an immediate AVG update that can be performed any time the need arises.
- **Scheduled update** within AVG it is also possible to <u>pre-set an update plan</u>. The planned update is then performed periodically according to the setup configuration. Whenever new update files are present on the specified location, they are downloaded and launched.

10.3. Update Process

The update process can be launched immediately as the need arises by the **Update now** <u>quick link</u>. This link is available at all times from any <u>AVG user interface</u> dialog. However, it is still highly recommended to perform updates regularly as stated in the update schedule editable within the <u>Update manager</u> component.

Once you start the update, AVG will first verify whether there are new update files available. If so, AVG starts their downloading and launches the update process itself. During the update process you will get redirected to the **Update** interface where you can view the process progressing in its graphical representation as well as in an overview of relevant statistic parameters (update file size, received data, download

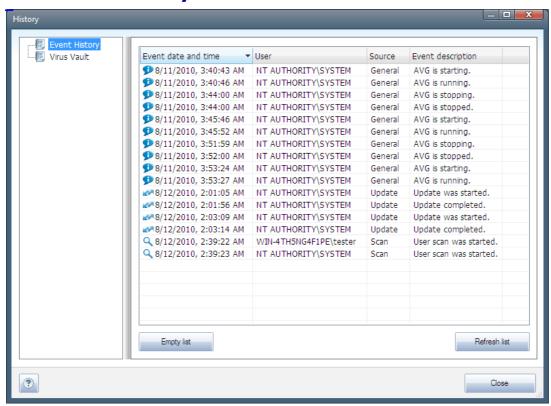


speed, elapsed time, ...).

Note: Before the AVG program update launch a system restore point is created. In case the update process fails and your operating system crashes you can always restore your OS in its original configuration from this point. This option is accessible via Start / All Programs / Accessories / System tools / System Restore. Recommended to experienced users only!



11. Event History



The *History* dialog is accessible from the <u>system menu</u> via the *History/Event History Log* item. Within this dialog you can find a summary of important events that occurred during **AVG Anti-Virus Free Edition 2011** operation. *History* records the following types of events:

- Information about updates of the AVG application
- Scanning start, end or stop (including automatically performed tests)
- Events connected with virus detection (by the Resident Shield or scanning) including occurrence location
- Other important events

For each event, the following information are listed:

- Event date and time gives exact date and time the event occured
- **User** states who initiated the event
- **Source** gives the source component or other part of the AVG system that triggered the event



• **Event description** gives brief summary of what actually happened

Control buttons

- **Empty list** deletes all entries in the list of events
- **Refresh list** updates all entries in the list of events



12. FAQ and Technical Support

Should you have any problems with your AVG, either business or technical, please refer to the **FAQ** section of AVG website (http://www.avg.com/). You can also use the discussion forum for AVG Free users accessible at http://forums.avg.com.

Unfortunately, using **AVG Anti-Virus Free Edition 2011** you are not entitled to technical support provided to full versions of AVG products. You may want to consider buying the full version of AVG, then please visit the AVG website (http://www.avg.com/) for information on AVG 10 purchase options.