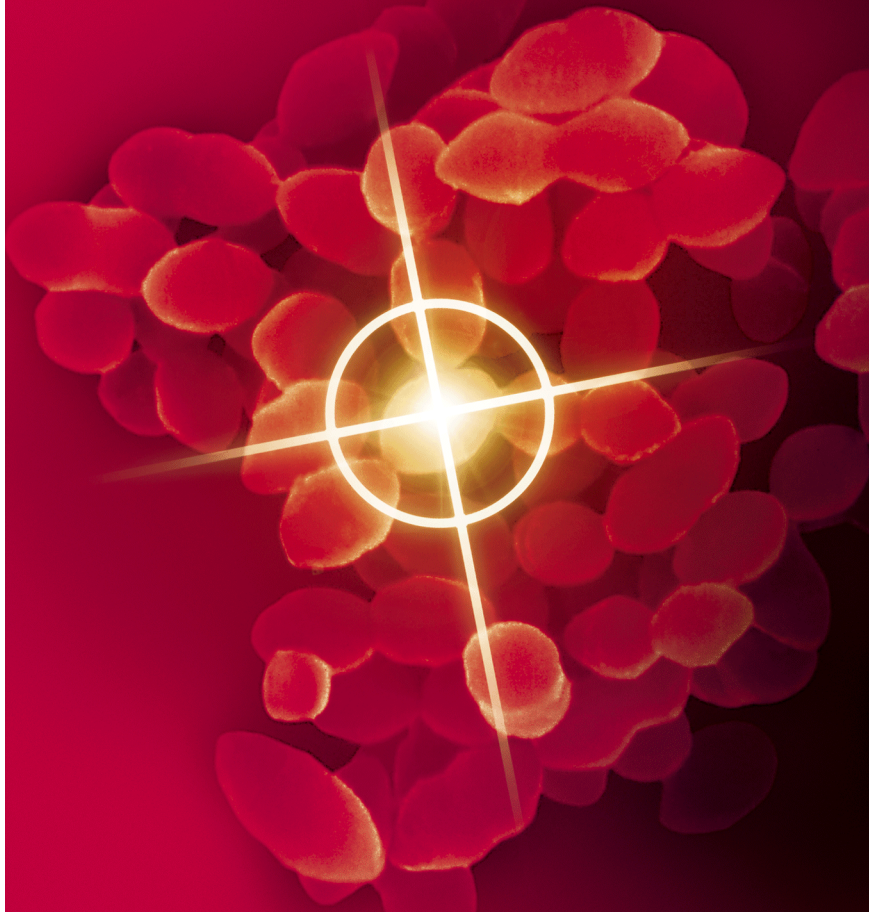


# McAfee VirusScan Professional Edition

VERSION 7.0



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## Introduction

Stop viruses and keep your PC safe with McAfee VirusScan! When you're surfing the Internet, there's more to worry about than just viruses. You need to be able to control the communications into and out of your PC to ensure that your computer is safe. VirusScan includes extra firewall protection to keep your computer safe when you're connected to the Internet. VirusScan destroys threats at all entry points to your PC including e-mail and synchronization with your PDA. It constantly monitors and stops virus-like activity on your computer to prevent any new threats from spreading. If you've got an Internet connection, you need more than just anti-virus protection, you need VirusScan!

## What's new in this release?

- **Hostile Activity Watch Kernel (HAWK)** constantly monitors your computer for virus-like activity providing even more protection from Internet-based threats. It looks for events that may indicate new mass-mailers are present, or attachments with double file extensions.

HAWK has been enhanced to include e-mail clients other than just Microsoft Outlook - it now supports Outlook Express, Eudora, and other e-mail that uses SMTP (Simple Mail Transfer Protocol) - this includes many popular email clients however does not include Internet-based email (like Hotmail, for example).

- **Script Stopper™**: Many of the fastest spreading viruses, like I Love You, use scripts to infect your PC. VirusScan 7 stops new malicious threats from infecting your system with Script Stopper™. Using HAWK's constant monitoring to detect actions that are often included in script-based viruses, Script Stopper™ alerts you of the attempted activity and will stop the actions that are initiated on your computer without your knowledge. Script Stopper™ detects, alerts, and blocks malicious script actions to keep your computer safe from script-initiated threats.
- **Integrated with Windows Explorer**: VirusScan 7 includes a Windows Explorer plug-in that lets you quickly scan files and access other VirusScan features directly from Windows Explorer making it easier than ever to use award-winning VirusScan technology.

- **Microsoft Office Integration:** VirusScan 7 scans Microsoft Office 2000+ documents to provide extra protection to users of Microsoft Word, Excel, and PowerPoint (2000+) in the event that VShield background scanning must be disabled.
- **Usability enhancements:** McAfee VirusScan Professional Edition includes many user interface enhancements to make it easier than ever to keep your computer and electronic files virus free.

## What comes with McAfee VirusScan Professional Edition?

McAfee VirusScan Professional Edition consists of several components that combine one or more related programs, each of which play a part in defending your computer against viruses and other malicious software. These components are:

- **The VirusScan Home page.** This is your central entry point in using all of tasks and components. The Home page provides relevant information such as your computer's current Automatic Protection Settings status and version information about your virus definitions. The Home page also informs you if an update to McAfee VirusScan Professional is available for download and the total number of scan operations performed.
- **On-Demand Scanning (ODS).** On-demand scanning enables you to scan at any time. For example, if you suspect you have come in contact with an infected file, but have not accessed the file, you may manually scan the suspect file, folder, drive, etc.

To perform an on-demand scan, simply select the **Scan for viruses now** task from the McAfee VirusScan Professional Edition Home page.

- **The VShield Scanner.** This is an On-access Scanning (OAS) component that gives you continuous anti-virus protection from viruses that arrive on floppy disks, from your network, or from various sources on the Internet. The VShield scanner starts when you start your computer, and stays in memory until you shut down. A flexible set of property pages lets you tell the scanner which parts of your system to examine, what to look for, which parts to leave alone, and how to respond to any infected files it finds. In addition, the scanner can alert you when it finds a virus, and can summarize each of its actions.

- **Hostile Activity Watch Kernel.** HAWK monitors your computer for suspicious activity that may indicate a virus is present on your system. As opposed to VirusScan, which cleans the virus, HAWK prevents viruses, worms, and trojans from spreading further. HAWK monitors e-mail clients such as Outlook, Outlook Express, Eudora, and any other client that supports SMTP (Simple Mail Transfer Protocol), but does not support Internet-based e-mail such as MSN's Hotmail.

HAWK incorporates McAfee's Script Stopper™ to detect, alert, and block malicious script actions to keep your computer safe from script-initiated threats.

- **Safe & Sound.** This component allows you to create backup sets in protected volume files, which is the safest and preferred type of backup. A protected volume file is a sectioned-off area of the drive, sometimes called a logical drive.

**NOTE**

Safe & Sound is a VirusScan utility that is only functional when McAfee VirusScan Professional Edition is installed in conjunction with a Windows 98, Windows 98 SE, or Windows Me operating system.

- **Quarantine.** This component allows you to move infected files to a quarantine folder. This moves infected files from areas where they can be accessed and enables you to clean or delete them at your convenience.
- **The E-mail Scan extension.** This component allows you to scan your Microsoft Exchange or Outlook mailbox, or public folders to which you have access, directly on the server. This invaluable "x-ray" peek into your mailbox means that VirusScan software can find potential infections before they make their way to your desktop, which can stop a Melissa-like virus in its tracks.
- **The Emergency Disk creation utility.** This essential utility helps you to create a floppy disk that you can use to boot your computer into a virus-free environment, then scan essential system areas to remove any viruses that could load at startup.
- **Bootable CD.** The VirusScan Installation CD includes a CD version of the emergency startup disk. If your computer is configured to start using its CD drive, then you can use the CD to boot your computer in to a virus-free environment then scan for viruses that load during startup.
- **McAfee Instant Updater.** Enables your computer to automatically communicate with McAfee while you are connected to the internet and inquire of the availability of product updates, updates to anti-virus signature files, and updates to the VirusScan scan engine. You will also use this feature to register your McAfee product.

- **Wireless device protection.** Comprehensive wireless device protection. In addition to total anti-virus protection for your PC, VirusScan protects your wireless device and PC from harmful viruses transferred during the synchronization process. Wireless device protection also includes resident – on the device – detection and cleaning scanners to protect your wireless device from viruses during wireless use.
- **Command-line Scanners.** This component consists of a set of full-featured scanners you can use to run targeted scan operations from the MS-DOS Prompt or Command Prompt windows, or from protected MS-DOS mode. The set includes:
  - ◆ **SCAN.EXE**, a scanner for 32-bit environments only. This is the primary command-line interface. When you run this file, it first checks its environment to see whether it can run by itself. If your computer is running in 16-bit or protected mode, it will transfer control to one of the other scanners.
  - ◆ **SCANPM.EXE**, a scanner for 16-bit and 32-bit environments. This scanner provides you with a full set of scanning options for 16-bit and 32-bit protected-mode DOS environments. It also includes support for extended memory and flexible memory allocations. SCAN.EXE will transfer control to this scanner when its specialized capabilities can enable your scan operation to run more efficiently.
  - ◆ **SCAN86.EXE**, a scanner for 16-bit environments only. This scanner includes a limited set of capabilities geared to 16-bit environments. SCAN.EXE will transfer control to this scanner if your computer is running in 16-bit mode, but without special memory configurations.
  - ◆ **BOOTSCAN.EXE**, a smaller, specialized scanner for use primarily with the Emergency Disk utility. This scanner ordinarily runs from a floppy disk you create to provide you with a virus-free boot environment.

All of the command-line scanners allow you to initiate targeted scan operations from an MS-DOS Prompt or Command Prompt window, or from protected MS-DOS mode. Ordinarily, you'll use the VirusScan application's graphical user interface (GUI) to perform most scanning operations, but if you have trouble starting Windows or if the VirusScan GUI components will not run in your environment, you can use the command-line scanners as a backup.

- **McAfee QuickClean Lite.** Remove various junk files and unconnected items on various folders such as your PC's Internet Cache, Recycle Bin, Temporary Files, Shortcut and Windows Registry.
- **McAfee Shredder.** Securely delete files so they cannot be restored or rebuilt using undelete utilities. Shred files on your PC's Recycle Bin, Temporary Internet files, as well as the Web site history folder.

## Before you begin

McAfee distributes VirusScan software in two ways:

- 1 As an archived file that you can download from the McAfee web site.
- 2 On CD-ROM.

Although the method you use to transfer VirusScan files from an archive obtained via download differs from the method you use to transfer files from a CD that is placed in your CD-ROM drive, the installation steps followed after that are the same for both distribution types. Review the system requirements shown below to verify that VirusScan software will run on your system.

## System requirements

To install this product, you require the following:

### Desktop and notebook computers

To use McAfee VirusScan Professional Edition you need:

- Windows 98, Windows Me, Windows 2000 Professional, Windows XP Home Edition, or Windows XP Professional.
- Internet Explorer 4.01, Service Pack 2 or higher required; IE 5.01 or later recommended.
- 65 megabytes (MB) of hard disk space required.
- 32 MB of RAM.
- An Intel Pentium-class or compatible processor rated at 100 MHz or higher.
- CD-ROM drive.
- To take full advantage of your McAfee product's Instant Updater feature, you should have an Internet connection, either through your local-area network, or via modem and an Internet service provider.

## Additional requirements for wireless devices

### Palm OS and Palm requirements

McAfee VirusScan for Palm Desktop with HotSync Manager 3.0 will install and run on any IBM PC or PC-compatible computer equipped with Palm Desktop 3.0 or later. The latest version of Palm Desktop and HotSync 3.0 is a free download from Palm's site (at [www.palm.com](http://www.palm.com)). The device-resident portion is quite simple and should work on any device with the Palm OS.

### Windows CE or Pocket PC system requirements

McAfee VirusScan for Windows CE or Pocket PC will install and run on any IBM PC or PC-compatible computer equipped with ActiveSync 3.0 or later. Any CE device with ActiveSync 3 will function properly.

### Symbian EPOC system requirements

McAfee VirusScan for Symbian's EPOC will install and run on any IBM PC or PC-compatible computer equipped with PsiWin 2.3 (or equivalent for non-Psion EPOC devices. All EPOC devices should ship with PsiWin 2.3 /EPOC Connect 5. These include:

- Psion Revo
- Psion Series 5mx
- Psion Series 7
- Psion netBook
- Oregon Scientific Osaris
- Ericsson MC218
- Ericsson R380

If you have an older device but the current PsiWin/EPOC Connect software, McAfee VirusScan for Symbian's EPOC will function properly, including the Psion HC, the MC series, the Workabout series, all Psion Series 3 models, the Psion Sienna, the Psion Series 5, the Geofox One, and the Phillips Ilium.

If you do not have PsiWin 2.3, Symbian offers a free product called EPOC Connect Lite which also works.

## Installation steps

After inserting the McAfee VirusScan Professional Edition installation CD into your computer's CD-ROM drive, an Autorun image should automatically display. To install McAfee VirusScan Professional software immediately, click Install McAfee VirusScan Professional, then skip to Step 5 to continue with Setup.

### Use the steps below to install your software.

- 1** If your computer runs Windows 2000 Professional or Windows XP (Home or Professional), log on to your computer as a user with administrative rights. You must have administrative rights to install this software.
- 2** Insert the McAfee VirusScan Professional Edition CD in to your computer's CD-ROM drive. If the Installation Wizard does not automatically display, go to Step 3. Otherwise, skip to Step 4.
- 3** Use the following procedure if the Autorun installation menu does not display, or, if you obtained your software via download at a McAfee web site.
  - a** From the Windows Start menu, select Run. The Run dialog box displays.
  - b** Type <X>:\SETUP.EXE in the text box provided, then click OK.
- 4** Here, <X> represents the drive letter for your CD-ROM drive or the path to the folder that contains your extracted files. To search for the correct files on your hard disk or CD-ROM, click Browse.
  - a** Before proceeding with the installation, Setup first checks to see whether your computer has the Microsoft Windows Installer (MSI) utility running as part of your system software. If your computer runs Windows XP, the current version of MSI already exists on your system. If your computer runs an earlier Windows release, you may still have MSI in your computer if you previously installed other software that uses MSI. In either of these cases, Setup will display its first wizard panel immediately. Skip to Step 5 to continue.
  - b** If Setup does not find MSI or an earlier version of MSI is installed in your computer, it installs files necessary to continue the installation, then prompts you to restart your computer. Click Restart System. When your computer restarts, Setup will continue from where it left off.
- 5** Refer to steps displayed on the Installation Wizard to complete your installation.

**NOTE**

If your computer does not have the required fonts to view the End User's License Agreement (EULA), then you may locate the appropriate EULA on your McAfee software installation CD. You must read and agree to the terms of the agreement to complete your installation.

# Troubleshooting installation problems

A failed installation can cause software problems that are difficult to track down. The major causes of installation failure are:

- Attempting to install while other software is running.
- Temporary files that conflict with the installation.
- Hard drive errors.

Follow the procedure outlined below to minimize the affect that these common conditions may have on your installation.

## Step 1: Close other software

Disable all software running in the background:

- 1 Hold down the Ctrl and Alt keys on your keyboard, and then press the Delete key once. The Close Program dialog box appears.
- 2 Click End Task for every item on the list except Explorer.
- 3 Repeat steps 2 and 3 until you've closed everything except Explorer.
- 4 When you see only Explorer in the Close Program dialog box, click Cancel.

## Step 2: Remove temporary files

Delete the contents of the Windows Temp folder:

- 1 Double-click the My Computer icon on your desktop. The My Computer window opens. Double-click the C: drive. You are now viewing the contents of your hard drive.
- 2 Double-click the Windows folder.
- 3 In the Windows folder, double-click the Temp folder.
- 4 In the menu, click Edit, then click Select All. All of the items in your Temp folder are highlighted.
- 5 Press the Delete key on your keyboard to delete the files. If Windows asks about deleting files, click Yes.
- 6 In the Windows task bar, click Start, then click Shut Down.
- 7 Click Restart the computer, then click Yes in the Shut Down Windows dialog box to restart your PC.

### Step 3: Clean your hard drive

Run the Windows hard drive utilities, ScanDisk and Disk Defragmenter to identify and fix any errors on your hard drive:

- 1 Click Start on the Windows task bar, point to Programs, then Accessories, then System Tools, and click ScanDisk.
- 2 In the ScanDisk window, select Standard and Automatically fix errors.
- 3 Click Advanced. In the Advanced Settings dialog box, make sure the following settings are selected:
  - ◆ Only if errors found
  - ◆ Replace log
  - ◆ Delete
  - ◆ Free
- 4 Ignore the other options, and click OK. Click Start. ScanDisk begins scanning your drive for errors. Depending on the size of your hard drive, ScanDisk may take several minutes to complete its job.
- 5 When ScanDisk is finished, close ScanDisk.
- 6 Click Start on the Windows task bar, point to Programs, then Accessories, then System Tools, and click Disk Defragmenter.
- 7 Click OK to start Disk Defragmenter. Depending on the speed of your computer and the size of your drive, this may take several minutes to complete.
- 8 Close Disk Defragmenter when it has finished defragmenting your disk.

### Removing or modifying your McAfee VirusScan Professional installation

If your computer's operating system is...

- Windows 2000 Professional
- Windows XP Home Edition
- Windows XP Professional Edition

... you must log on to your computer as a user profile with administrative rights.

Then do the following:

- 1 From the Windows Control Panel, start the Add/Remove applet.

- 2 Select McAfee VirusScan Professional Edition and click:
  - ◆ **Remove** to remove McAfee VirusScan Professional Edition from your computer.
  - ◆ **Change** to modify your McAfee VirusScan Professional Edition installation.
- 3 Refer to steps displayed on the Installation Wizard to complete your changes.

If prompted, restart your computer as directed by setup.

### **Important information about Windows XP migration**

Upgrading your computer's operating system from any version of Windows to Windows XP causes all McAfee products installed before migration to become disabled after migration to Windows XP.

You will be made aware of this situation as you make your first attempt to start a McAfee product (after migration) - you will be instructed to reinstall the product.

As such, you will need to uninstall all McAfee products and reinstall using your installation CD or the software obtained from McAfee via download.

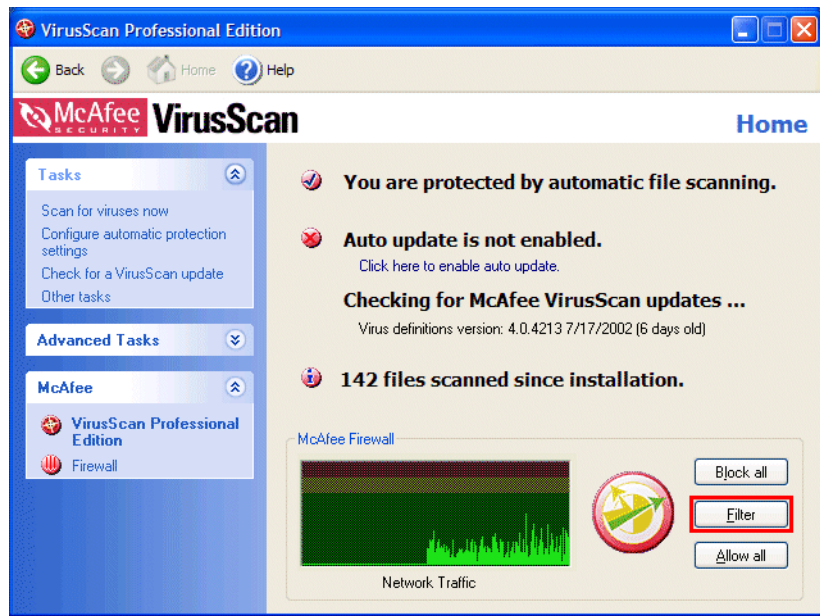


# Getting Started with McAfee VirusScan Professional Edition

# 3

## Introduction

The McAfee VirusScan Professional Edition Home page is your central entry point to access and use all of McAfee VirusScan Professional's tasks, wizards, and components. This screen displays three regions that provide you with dynamic information about current status and navigation links to all tasks.



## The Title bar and Tool bar

### Title bar

The Home page displays most of your standard Windows elements; that which includes:

- The title bar displays the name of the program that is currently running.
- Close and minimize buttons. McAfee VirusScan Professional Edition's interface is of fixed length and width. You cannot resize the interface.

## Tool bar

The tool bar displays four browser-like buttons that are common to all screens.

- **Back.** Click Back to return to the last screen viewed.
- **Home.** Click Home to go to the McAfee VirusScan Professional Home page from any screen.
- **Next.** In conjunction with the Back button, use Next to go to any previously viewed screen during your current session.
- **Help.** Click Help to view its submenu. The Help submenu may include any of the following items.

Help submenu item	Select this item to...
Help on this page	♦ View online Help for the screen you are currently viewing.
Contents and index	♦ View online Help for McAfee VirusScan Professional.
Virus Information Library	♦ Start your Internet browser and go directly to the McAfee AVERT Virus Information Library Web site.
Help on the Web	♦ Start your Internet browser and go directly to the McAfee Help Web site at McAfeeHelp.com.
McAfee at Home on the Web	♦ Start your Internet browser and go directly to McAfee-at-home.com.
About McAfee VirusScan Professional	♦ Version information about McAfee VirusScan Professional.

## Status information

Depending upon your configuration, the McAfee VirusScan Professional Edition Home page displays other helpful information such as:

- **Status of automatic file scanning.** This message lets you know if your computer is or is not protected by automatic file scanning. If you are not protected, “**Click here to enable automatic file scanning**” displays. You can click this message to instantaneously enable automatic file scanning.

- **Update availability.** If an update for McAfee VirusScan Professional Edition is available, or if you have not registered this product with McAfee, a message displays describing as such. Additionally, virus definition files (DATs) version information displays here as well.

If there is an update to McAfee VirusScan Professional Edition available, **Click here to update McAfee VirusScan** displays. You can click this message to start McAfee Instant Updater and update this product.

- **The total number of scanning operations performed.** The number represented by this status message indicates the total number of scan operations performed since you installed McAfee VirusScan Professional Edition.

## The Task pane

The Task pane displays links that allow you to start McAfee VirusScan Professional's **Tasks** and **Advanced Tasks**. Depending upon your configuration, the Task pane displays **McAfee**, links that allow you start the Home page for any other current McAfee product that you have installed in your computer.

### About Tasks

Starting a task is as easy as clicking its link. The Task list allows you to start McAfee VirusScan Professional's major components. Although the tasks you can perform will vary based upon your computer's operating system and its configuration, primary tasks include:

- **Scan for viruses now:** This task allows you to scan your entire computer for viruses. Here you can also choose to scan a specific drive, folder, or file. When the scan is complete, the VirusScan Summary report displays.
- **Configure automatic protection settings:** Select this task to configure VShield background scan settings.
- **Check for a VirusScan update:** This task starts McAfee Instant Updater and checks to see if there is an update to McAfee VirusScan Professional available.
- **Other Tasks:** Depending upon your McAfee VirusScan Professional configuration, this task provides you a quick and convenient method to start McAfee VirusScan Professional's shared features.

### About Advanced Tasks

Similar to the primary Task list, the Advanced Task list may vary depending upon your version of Windows, its configuration, and other software that may be installed in your computer. McAfee VirusScan Professional Edition's advanced tasks include:

- **Configure and scan my wireless device:** Select this task to configure and defend your wireless device against viruses.
- **Manage quarantined files:** Select this task to manage files infected with a virus. Here you can choose to add, remove, clean, and delete infected and quarantined files.
- **View and edit scheduled scans:** This advanced task allows you to schedule scan events. You can use the default settings for scan events or create a custom list of scan events.
- **View VirusScan's activity logs:** Activity logs contains records about VirusScan settings, scan results, and historical records of scans performed. Select this task to view these records.
- **Configure Instant Updater:** Instant Updater is the mechanism used to register your product and to communicate with McAfee to check for an update to virus definition files (DATs), the virus scanning engine, and for updates to the McAfee VirusScan Professional product. Select this advanced task to check for updates to McAfee VirusScan Professional Edition.

### About the McAfee list

The McAfee list displays links to start the Home page of any other supported McAfee product.

## Other McAfee VirusScan Professional Edition features

### The VShield Tray Icon

The VShield icon located in the Windows system tray allows you to perform several tasks.

- **Launch VirusScan:** Select this option to Start McAfee VirusScan Professional Edition, if it is not running.
- **View VirusScan Status:** Select this option to view the VirusScan background scanner (VShield) property sheet. Here you can view real-time status information about VirusScan's background scan modules.
- **Disable VirusScan:** Select this option to stop VirusScan's background scanner (VShield).
- **About VirusScan:** This option provides you with version information about McAfee VirusScan Professional Edition.

### Windows Explorer plug-in

With functionality similar to that of the VShield system tray icon, you can display a VirusScan toolbar in Windows Explorer.

To display the VirusScan toolbar, right-click the Windows Explorer toolbar and select McAfee VirusScan. The VirusScan toolbar allows you to:

- Scan objects displayed in Windows Explorer. For example, you can select a file, group of files, folder, or a drive.

To use this feature, select the object you want to scan in Windows Explorer. Click the VirusScan toolbar drop-down arrow and click **Scan for Viruses**.

- View current VirusScan Status information. To view real-time scan data about System scan, E-mail scan, and HAWK.

## About VShield Scanner

The VShield scanner has unique capabilities that make it an integral part of the VirusScan comprehensive anti-virus software security package. These capabilities include:

- **On-access scanning:** This means that the scanner looks for viruses in files that you open, copy, save, or otherwise modify, and files that you read from or write to floppy disks and network drives. It therefore can detect and stop viruses as soon as they appear on your system, including those that arrive via e-mail. This means you can make the VShield scanner both your first line of anti-virus defense, and your backstop protection in between each scan operation that you perform. The VShield scanner detects viruses in memory and as they attempt to execute from within infected files.
- **Automatic operation:** The VShield scanner integrates with a range of browser software and e-mail client applications. VShield Scanner starts when you start your computer, and stays in memory until you shut it or your system down.

## VShield automatic protection settings

The VShield scanner consists of related modules, each of which has a specialized function. You can configure settings for all of these modules in the VShield properties sheet.

### System Scan

The System scanner looks for viruses on your hard disk as you work with your computer. It tracks files as your system or other computers read files from your hard disk or write files to it. It can also scan floppy disks and network drives mapped to your system.

The System scanner provides scanning protections against viruses embedded in or attached to e-mail messages as well as files that you download from the Internet. The System scanner's functionality replaces that which was included in the Download and Internet scanners included with previous versions of McAfee VirusScan Professional.

### E-mail Scan

The E-mail scanner monitors e-mail messages and message attachments that you receive via interoffice e-mail systems, and via the Internet. It scans your Microsoft Exchange or Outlook mailbox systems.

## Hostile Activity Watch Kernel

HAWK monitors your computer for suspicious activity that may indicate a virus is present on your system. As opposed to VirusScan, which cleans the virus, HAWK prevents viruses, worms, and trojans from spreading further.

Hostile Activity Watch Kernel (HAWK) is a VirusScan option that enables constant monitoring for suspicious activity that may indicate a virus is present on your system. Suspicious activity includes:

- An attempt to forward e-mail to a large portion of your address book.
- Attempts to forward multiple e-mail messages in rapid succession.

E-mail attachments containing program files (executable files with an .exe file extension) or scripts that can be used to mask the actual type document transmitted to you.

By monitoring for these typically malicious activities, HAWK notifies you and lets you take action before damage occurs. HAWK can prevent viruses, worms, and trojans from spreading further, while VirusScan cleans the virus to remove it from your computer.

## About Script Stopper™

Script Stopper™ is a VirusScan protection mechanism associated with the HAWK. Script Stopper™ detects the activities performed by malicious script methods and routines. For example, Script Stopper™ detects scripts that try to:

- Delete, open, or make files in your computer.
- Send e-mail messages without your knowledge or consent.
- Access your computer's registry.

Script Stopper™ allows you to create a list of trusted scripts. If you encounter a script that is acting in a hostile manner, an alert message displays. At such time, you can block the script from running now, and at any time in the future.

If you recognize the script, you can allow it to run. If you allow a script to run, and indicate that you recognize the script, McAfee VirusScan Professional adds the script to its records of trusted scripts. If there are scripts that you frequently use, or want to allow to run, you can add scripts to a trusted database directly from the Script Stopper™ property sheet in the HAWK scan module.

## How to Start and Stop VShield Scanner

### Using the VShield tray icon

The VShield icon located in the Windows system tray allows you to start and stop automatic file protection. To do this right-click the VShield icon and select:

- **Launch VirusScan** to Start McAfee VirusScan Professional, and to enable automatic file protection.
- **Disable VirusScan** to disable automatic file protection. Please note automatic file protection, by default, restarts without your intervention within 60 minutes of disablement.

#### TIP

To maintain the highest level of anti-virus protection, it is not recommended that you disable automatic file protection.

### Using the Windows Control Panel applet

- 1 With the VShield Scanner running, from the Windows task bar select **Start > Settings > Control Panel**. The Windows Control Panel displays.
- 2 Double-click the **VirusScan** icon. The VirusScan Services dialog box displays.
- 3 Select the Service tab and click **Stop**. VShield Scanner stops.
- 4 By default, setup configures McAfee VirusScan Professional Edition to start as Windows starts. If you do not want McAfee VirusScan Professional to start as Windows starts, clear the check box next to **Load on startup**.
- 5 Click **Apply** to save your settings.
- 6 Click **OK** to close the VirusScan Services dialog box.

#### TIP

You can start or re-start the VShield Scanner using the steps described above.

VShield Scanner, by default, is configured to automatically start each time your computer starts. To prevent VShield Scanner to run at startup, clear the Load on startup check box.

## Using Quarantine

Many VirusScan components allow you to move infected files to a quarantine folder. This moves infected files from areas where they can be accessed and enables you to clean or delete them at your convenience.

### How to managing quarantined files

This list describes the options available to you when managing quarantined files:

- **Add:** Select this option to browse for and quarantine a suspected file.
- **Clean:** Select this option to remove the virus code from infected file. If the virus cannot be removed, it will notify you in its message area.
- **Restore:** Select this option to restore a file to its original location. Please note, ***this option does not clean the file***. Make sure the file is not infected before selecting Restore.
- **Delete:** Select this option to delete the infected file. Make sure to note the file location so you have a record of the deleted files. You will need to restore deleted files from backup copies.

#### **WARNING**

Choose **Delete** only if a backup copy of the file is available. To learn more about how to restore Windows system files, please visit [www.avertlabs.com](http://www.avertlabs.com).

- **Submit quarantined files to AVERT via WebImmune:** Select this option to submit new viruses to McAfee's investigative labs.

#### **NOTE**

McAfee is committed to providing you with effective and up-to-date tools you can use to protect your system. To that end, we invite you to report any new viruses, Java classes, ActiveX controls, or dangerous web sites that VirusScan does not now detect.

If you have found what you suspect to be a new or unidentified virus, send the infected file to McAfee Labs Anti-Virus Emergency Response Team for analysis, using WebImmune. For more information about WebImmune, please visit [www.webimmune.net](http://www.webimmune.net).

**TIP**

You can also attempt to obtain an antidote from A.V.E.R.T. using WebImmune at [www.webimmune.net](http://www.webimmune.net).

Network Associates reserves the right to use any information you supply as it deems appropriate without incurring any obligations whatsoever.

## Safe & Sound

Safe & Sound is a unique backup utility that automatically creates backup files of your documents as you work on them. You can configure Safe & Sound to back up to a different drive, across a network connection, or to a protected area within your local (c:\) drive. If your files become corrupted due to a virus, or your system crashes, or if you lose your files, McAfee's Safe & Sound utility provides you the ability to recover files using the Safe & Sound Windows or DOS recover utility.

Please note, Safe & Sound is a VirusScan utility *that is only functional* when McAfee VirusScan Professional Edition is installed in conjunction with a **Windows 98, Windows 98 SE, or Windows Me** operating system.

### **How Safe & Sound creates automatic backups**

When you select to have Safe & Sound automatically create a backup set for you, it creates the first backup set while you are stepping through the Safe & Sound Wizard. Thereafter, while the Enable Automatic Backup option is selected, it continues to update your backup set at the time delay you've specified. If you chose to make Mirror backups, Safe & Sound updates your backup set at the same time that you re-save the original source files.

### **Defining your backup strategy**

After you decide which backup type you want to use (either a protected volume file or a directory backup set), the most important questions you must answer when defining your own backup strategy are:

#### **Where will you store the backup set?**

In today's computer marketplace, you may discover that it is as cost effective to acquire a separate backup hard drive where you can keep a current mirror backup copy of one or more other drives that you use on your PC.

In addition, you may want the backup copy to be stored at a remote location, for increased protection. As long as Safe & Sound can access a logical drive mapped on your PC, it can store the backup set there. That is, the backup set can be stored on a shared network drive.

#### **What files are important (which files must be backed up)?**

Safe & Sound automatically selects files that are typically important to include in a backup set. However, you can select other files or types of files to include in your backup set.

### How often should you or safe & sound make these backups?

The more recent your backup set, the happier you'll be if your PC does encounter a problem that compromises the data on your primary drives. However, you may want to keep the default Write-behind Delay of 20 minutes to give you time to recover a previous version of a file if you ever need to

## Safe & Sound configuration

The Safe & Sound setup wizards guides you through your initial setup. Please access online Help for information about Safe & Sound configuration.

## Emergency disk creation

As it installs itself, VirusScan software will examine your computer's memory and your hard disk's boot sectors to verify that it can safely copy its files to your hard disk without risking their infection. During that installation, Setup offers to create an Emergency Disk you can use to start your system in a virus-free environment. Should the VirusScan software itself become infected, or if you want to be sure your computer is clean before you install any other software, create and use an Emergency Disk to start your computer.

VirusScan software comes with an Emergency Disk wizard that makes disk creation simple and fast.

The Emergency Disk you create includes BOOTSCAN.EXE, a specialized, small-footprint command-line scanner that can scan your hard disk boot sectors and Master Boot Record (MBR). BOOTSCAN.EXE works with specialized set of virus definition (.DAT) files that focus on ferreting out boot-sector viruses. If you have already installed VirusScan software with default Setup options, you'll find these .DAT files in this location on your hard disk:

*C:\Program Files\Common Files\Network Associates\VirusScan Engine\4.0.xx*

The special .DAT files have these names:

- ◆ EMCLEAN.DAT
- ◆ EMNAMES.DAT
- ◆ EMSCAN.DAT

McAfee periodically updates these .DAT files to detect new boot-sector viruses. You can download updated Emergency .DAT files from this location:

*<http://www.mcafee2b.com/naicommon/avert/avert-research-center/tools.asp>*

McAfee recommends that you download new Emergency .DAT files directly to a newly formatted floppy disk in order to reduce the risk of infection.

## Using VirusScan With a Wireless Device

### Introduction

As the demand for wireless devices continue to grow, it carries with it, the threat of compromising your data against viruses especially whenever you exchange information between your PC and your wireless device.

Wireless devices that are currently available in the market today are primarily designed as a more convenient alternative in storing and retrieving information such as personal activities, people's addresses, telephone numbers, appointments, expenses, etc. Either at work or at home, you can easily keep track of records in all of these areas by simply using your wireless device. You can even set an alarm to alert you of important meetings, events or tasks to do during the day, week or month.

### How VirusScan protects your wireless device

McAfee VirusScan is an application designed to protect your data by scanning the files on your wireless device every time a data exchange or update is performed with your computer. It protects your system from viruses that may have been placed on your wireless device during the use of features such as infrared transfers and wireless transactions. McAfee VirusScan supports most types of wireless devices using Palm OS, Pocket PC, Windows CE, and EPOC operating systems (please refer to the following table).

**Table 3-1. Examples of wireless devices that McAfee VirusScan supports**

Operating System	Wireless Device	Manufacturer
Palm OS	<ul style="list-style-type: none"> <li>♦ Palm VII Series</li> <li>♦ Palm V Series</li> <li>♦ Palm III Series</li> <li>♦ Palm M Series</li> </ul>	Palm, Inc.
Palm OS	<ul style="list-style-type: none"> <li>♦ Visor</li> <li>♦ Visor Edge</li> </ul>	HandSpring
Palm OS	<ul style="list-style-type: none"> <li>♦ Clie</li> </ul>	Sony
Pocket PC	<ul style="list-style-type: none"> <li>♦ E-115</li> </ul>	Casio

Table 3-1. Examples of wireless devices that McAfee VirusScan supports

Operating System	Wireless Device	Manufacturer
Pocket PC	<ul style="list-style-type: none"> <li>◆ iPAQ</li> <li>◆ iPAQ H3600 Series</li> <li>◆ Aero</li> <li>◆ Aero 2100 Series</li> </ul>	Compaq
Pocket PC	<ul style="list-style-type: none"> <li>◆ PPT 2700 Series</li> </ul>	Symbol Technologies
Pocket PC	<ul style="list-style-type: none"> <li>◆ Jornada 540</li> <li>◆ Jornada 680</li> <li>◆ Jornada 720</li> </ul>	Hewlett-Packard
Pocket PC	<ul style="list-style-type: none"> <li>◆ E125</li> <li>◆ EM500</li> </ul>	Cassiopeia
Windows CE	<ul style="list-style-type: none"> <li>◆ PenCentra 130</li> </ul>	Fujitso
Windows CE	<ul style="list-style-type: none"> <li>◆ HPW-600 ET</li> </ul>	Hitachi
Windows CE	<ul style="list-style-type: none"> <li>◆ WorkPad z50</li> </ul>	IBM
EPOC	<ul style="list-style-type: none"> <li>◆ Psion Series 5MX</li> <li>◆ Psion - Revo</li> </ul>	Psion PLC
EPOC	<ul style="list-style-type: none"> <li>◆ Mako</li> </ul>	Diamond

**TIP**

For more information about protecting your wireless device, please refer to online Help for McAfee VirusScan Professional.



## Overview of on-the-device scanning

For wireless devices, such as Palm Pilots and Handspring Visors, McAfee VirusScan offers another level of protection - Resident Scanning. With Resident Scanning, VirusScan can protect your wireless device from infection even when you transfer files from your personal computer or access the Internet wirelessly. VirusScan is the only solution that offers both resident and on-synchronization protection for wireless devices.

### TIP

Please be sure to remove earlier versions of McAfee VirusScan software from your wireless device before performing the initial HotSync operation.

The VirusScan Professional program downloads from your personal computer to your wireless device as you perform your initial data synchronization operation. The Resident Scanner resides on your wireless device and allows you to scan the device at any time, without having to be connected to your personal computer.

There are two types of scanning operations that VirusScan Professional allows you to perform:

- **On-Demand Scanning:** Scan your device at any time, at your convenience.
- **On-Access Scanning:** VirusScan scans your wireless device as you access files, programs, and applications while your wireless device is running. VirusScan is “always-on.”

## Starting VirusScan on your wireless device

- 1 Tap the Home icon to display all applications.
- 2 Tap the VirusScan icon to open the program.

The VirusScan screen displays version information for the virus definition files (DAT files) and scan engine. Tap the menu, tap Help, and select About VirusScan to view version information for the VirusScan program.

## Options on the Home screen

The VirusScan home screen displays three options:

- **Scan:** Initiates an on-demand scan of your wireless device.
- **Virus List:** Displays a list of all know wireless-specific viruses.
- **Settings:** Displays the Settings page in which you can configure the on-demand scanner.

# Configurations

## How to configure on-demand scanning

- 1 On the Home screen, tap the VirusScan icon.
- 2 Tap Settings (or tap Options > Configure On-Demand).
- 3 Tap the ▼ to display the following options for how you want the scanner to behave as a virus is detected:
  - ◆ **Prompt user for action:** An alert message displays on the device and waits for your input.
  - ◆ **Clean infection automatically:** The scanner cleans or deletes the virus and continues scanning.
  - ◆ **Continue scanning:** The scanner ignores the virus and continues scanning.
- 4 Select any of the check boxes to define what the scanner displays during the scan, which files are scanned, and if you want to record the scanning activity in a log file.
- 5 When you have made your selections, tap Done to return to the VirusScan Home screen.

## How to configure on-access scanning

- 1 On the Home Screen, tap the VirusScan icon.
- 2 Tap Settings (or tap Options > Configure On-Access).
- 3 Tap the check box to Enable or Disable On-Access scanning (a checked check box indicates On-Access is enabled).
- 4 Tap the ▼ to display the following options for how you want the scanner to behave as a virus is detected:
  - ◆ **Prompt user for action:** An alert message displays on the device and waits for your input.
  - ◆ **Prevent launching infected files:** The scanner prevent the infected file from running.

- ◆ **Clean infection automatically:** The scanner cleans the virus and the infected file.
  - ◆ **Delete infection automatically:** The scanner deletes the virus and the infected file.
- 5 Select any of the check boxes to define what the scanner displays during the scan, which files are scanned, and if you want to record the scanning activity in a log file.
  - 6 When you have made your selections, tap Done to return to the VirusScan Home screen.

## How to perform an on-demand scan

- 1 You can start an On-Demand scan using either of the following actions:
  - ◆ Tap Scan in the VirusScan Home screen.
  - ◆ Tap the Menu and select Scan System.
- 2 When the On-Demand Scan is complete, you can view the results in the Scan Complete screen.
  - ◆ **Total scanned:** Total number of files scanned.
  - ◆ **Viruses found:** Number of viruses found.
  - ◆ **Trojans found:** Number of trojans found.
  - ◆ A list of the names of suspicious files found.
- 3 If you want to view information on any files listed, tap Details. The Details screen displays the application in which the file was created, the type of infection, what action has been taken (i.e.: deleted), and the name (identifier) of the suspicious code. Tap OK to return to the Scan Complete screen.

**TIP**  
Details does not display on the Scan Complete screen if there are no suspicious files.
- 4 Tap Done to close the Scan Complete screen.



## Introduction

Protect yourself while online with the advanced security of McAfee Firewall. Easy-to-use, yet highly configurable, McAfee Firewall secures your computer's connection to the Internet whether you connect via DSL, cable modem or dial-up. With intrusion detection, color coded security alerts, customizable audible alerts, detailed logging, and an application scan for Internet enabled applications, McAfee Firewall gives you the power you need to control the communications into and out of your personal computer, ensuring that your online experience is as safe as it is enjoyable.

## New in this release

- **Enhanced Hacker Tracing:**

Turn the tables on hackers and trace them back to their source. In addition to helping you make more informed decisions as what to allow or block, built-in tools let you gain valuable information that can be used to report hackers and spammers to their ISPs and the authorities.

- **Firewall Settings Security Check:**

Examines your firewall security settings, flags them and suggests changes, allowing you to rectify weaker settings before hackers get a chance to exploit them.

- **Home Networking Wizard:**

Helps make setting up protections for your PCs sharing an Internet connection a breeze, providing helpful wizards to walk you through the process.

- **Wizard for Creating Custom Firewall Rules:**

For power users, helpful wizards make creating special configurations for particular applications easier than ever. You can specify application, direction, ports and IP addresses to set up a program's online communication to your liking to meet your particular needs.

- **Intrusion Detection System:**

McAfee Firewall's Intrusion Detection System (IDS) detects common attack types and other suspicious activity, and can be set to automatically block further communication from potential attackers. You can take comfort in knowing that the McAfee Firewall product is always on guard, and always ready to put a halt to malicious network traffic.

- **Password Protection:**

Prevents others from tampering with your firewall settings by locking access to them with password security. Also helps keep your firewall protections secure by preventing the firewall from being shut down without your password.

## Additional resources

### McAfee Firewall Product Guide

The Product Guide is located in McAfee Firewall installation source folder. You need Acrobat Reader to view the Product Guide.

### Online Help

Online help for McAfee Firewall can be accessed from any screen. You can view screen-level Help or Help for McAfee Firewall by selecting **Help on this page** or **Contents and Index**, from their respective Help button sub-menu items on any McAfee Firewall screen.

### Readme

The Readme is a text file that you can view with any text editing program such as Windows Notepad. The Readme contains important information about the current release of the product including last minute changes and known issues. The Readme for McAfee Firewall is also located in the McAfee Firewall installation source folder.

## QuickClean Lite

### Clean your computer with QuickClean Lite

QuickClean Lite enables you to clean your computer of unnecessary files and free valuable hard disk space.

You can use the QuickClean Lite wizard to perform any of the following cleaning tasks:

- Clean your Recycle Bin.
- Remove files that accumulate as you browse the Internet. Files of this type are stored in folders called Temporary Internet or Cache folders.
- Remove Shortcuts without an associated program, application, hypertext link, etc.
- Delete lost file fragments.
- Delete Windows Registry information, shortcuts, and system file references for applications that no longer exist on your computer.
- Delete temporary files.
- Remove deleted and sent messages from a Microsoft supported e-mail client (i.e.: Outlook, Outlook Express).
- Delete Most Recently Used shortcuts.
- Use McAfee Shredder to securely shred the items you want to remove from your computer.

### How QuickClean Lite works

First, you select the types of files you wish to remove from your computer. A wizard guides you through this process. Next, the QuickClean Lite wizard scans the contents of your hard disk and identifies all files meeting your pre-selected criteria.

The user proceeds with the cleaning task if they are satisfied with the results of the scan. Finally, QuickClean Lite provides a graphic representation of the amount of reclaimed space after deleting the files.

**WARNING**

Deleted files are not backed up. You cannot restore files deleted by QuickClean Lite.

## How to start QuickClean Lite

There are two methods you can use to start the QuickClean Lite wizard.

- 1 From any VirusScan Professional screen click the “Other tasks” Task, and select Start QuickClean Lite.
- 2 From the Windows task bar click the Start button, point to Programs > McAfee > McAfee Shared Features and click QuickClean Lite.

## If you need help...

For additional information about using QuickClean Lite refer to online Help. You can access online Help for QuickClean Lite by clicking Help on any QuickClean Lite window.

# McAfee Shredder

## Securely delete files using McAfee Shredder

When you save a file in Windows, it is stored in multiple pieces (in clusters made up of multiple sectors) on the disk. Windows also saves a road map, or index, that points to these clusters in two copies of the FAT (File Allocation Table). The FAT contains the directions to all the pieces of your files, so that applications can find them again later.

In addition to FAT file systems, McAfee Shredder supports New Technology Filing System (NTFS). NTFS is the file system used by Windows NT, Windows 2000 and Windows XP.

When you delete a file, all the information stored in that file is not actually erased from your disk. Instead, Windows simply frees the clusters where the file was stored, making those locations available in the FAT. Thereafter, applications can write new information to those clusters. This means that all or part of your files can be reconstructed even after you delete them. Undelete programs can reconstruct a deleted file very easily, especially immediately after you delete the file and before you save any new information that might be written over the deleted file's contents.

For privacy and security reasons, you may want to be positive that the information stored in files you delete is permanently erased from your computer. McAfee Shredder does this for you by “security wiping” deleted files so they cannot be restored or rebuilt using undelete utilities. Unlike other file security erase programs, McAfee Shredder erases even the filename and the compressed data on DriveSpace drives. Note that it is not possible to shred network files, or files compressed with compression other than DriveSpace in an absolutely secure manner.

**TIP**

You can select McAfee Shredder properties to specify the shredding level to perform. You can select: Quick to shred the information once; U.S. Government Multipass to make seven passes of repeatedly erasing the data; or Custom to indicate how many passes to make which allows up to 99 passes.

## Shredder is easy to use!

You can shred files using drag and drop, which is a fast way if all the files are centrally located. If the files are in several places, you can shred them by starting McAfee Shredder and selecting the files to erase. A wizard guides you through the process.

McAfee Shredder allows you to shred files on your PC's Recycle Bin, Temporary Internet, as well as Web site history folder. You can also specify the number of shredding passes (1-99) and can now have the option to shred an entire drive.

**TIP**

If your computer is running on Windows Me, some files even if shredded, may be retained on your PC since these are protected by the Windows Me System Restore.

Refer to the online Help file to display step-by-step instructions on how to shred selected files and non-file data.

**WARNING**

After you shred non-file data, you will not be able to undelete any deleted files that utilized this information.



## About Instant Updater

As technologies advance, we continually provide updates to McAfee software products. To ensure the highest level of protection, you should always obtain the latest version of your McAfee product.

Updating your software is simple using McAfee's Instant Updater. It is a seamless process and requires minimal interaction on your part.

Instant Updater is also the mechanism used to register your product with McAfee. In order to obtain product updates, you must register your product with McAfee.

### Why Do You Need to Update?

- New features may be released for your McAfee product.
- Product fixes are periodically available.
- New product content is updated periodically.
- Updates to anti-virus signature files are frequently available.

### How Does the Updating Process Work?

Instant Updater allows you to obtain and apply updates to your McAfee products while connected to the Internet. If an update exists, you will receive a notification. At that time, you can download and apply the updates to your products.

## Instant Updater features

- **Auto Update is Instant Updater's default setting.**

Instant Updater silently checks for, and as appropriate, applies product updates while you are connected to the Internet.

Occasionally, Instant Updater may ask you to restart your computer to apply the updates. Auto Update checks for updates daily to ensure that your McAfee product, product content, and related elements such as the virus scan engine and DATs are current.

- **Auto Inquiry:** If Auto Inquiry is enabled, it allows you to receive notification of product updates while connected to the Internet. We do not recommend Auto Inquiry if you have slow internet connection
- **Manual Updating:** If you rarely connect to the Internet, you may prefer to use Manual Updating with your McAfee product. You can manually update while connected to the Internet. To do this, select the UPDATE function from within the individual product.

Manual Updating provides you with explicit control of the updating process.

### Home page query

Related to Instant Updater is **Home page query**. This feature allows you to configure your McAfee product's home page to display a message when an update is available. After you install your McAfee software, Home-page query "on" is the default setting.

## Configuration

For additional information regarding auto-inquiry and auto-update settings, please refer to on-line Help.

## www.McAfee-at-Home.com

McAfee is famous for its dedication to customer satisfaction. We have continued this tradition by making our site on the World Wide Web a valuable resource for answers to your questions about McAfee Consumer Products. We encourage you to visit us at <http://www.mcafee-at-home.com> and make this your first stop for all of your product support needs.

## Customer Service

To order products or obtain product information, contact the McAfee Customer Service department at (972) 308-9960 or write to the following address:

**Network Associates  
13465 Midway Road  
Dallas, TX 75244  
U.S.A**

Please note, (972) 308-9960 is telephone call to the United States of America.

## Technical Support

For agent assisted technical support, please visit <http://www.mcafeehelp.com>. Our support web site offers 24-hour access to solutions to the most common support requests in our easy-to-use 3 step Answer Wizard. Additionally, you may use our advanced options, which include a Keyword Search and our Help Tree, which have been designed with the more knowledgeable user in mind. If a solution to your problem cannot be found, you may also access our 24-hour FREE Chat Now! and E-mail Express! options. Chat and E-mail will enable you to quickly reach our qualified support engineers, through the internet, at no cost. Phone support information can also be obtained from our self-help web site at: <http://www.mcafeehelp.com>.

**BEFORE YOU CONTACT** McAfee Software for technical support, locate yourself near the computer with the McAfee product installed and verify the information listed below:

- Version number of your McAfee software  
From the McAfee VirusScan Professional main window select Help > About to find this information.

- Windows operating system version number
- Amount of memory (RAM)
- Complete description of the problem
- EXACT error message as on screen
- What steps were performed prior to receiving error message?
- Is the error persistent; can you duplicate the problem
- Model name of hard disk (internal / external)
- Extra cards, boards, or hardware

## Virus definition renewal

McAfee VirusScan includes twelve (12) months of free virus protection updates obtained using Instant Updater. Renewal subscriptions are available at a cost of **\$9.95** per year at the [www.McAfee-at-home.com](http://www.McAfee-at-home.com) **Buy** page. Please note that pricing is subject to change and we suggest that you refer to [www.McAfee-at-home.com](http://www.McAfee-at-home.com) for the latest price quote.

Eleven months after registering your McAfee VirusScan Professional product, Instant Updater will prompt you to renew your virus protection subscription. You must renew your subscription in order to update your virus protection. Your product will continue to function if you do not renew your subscription.

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