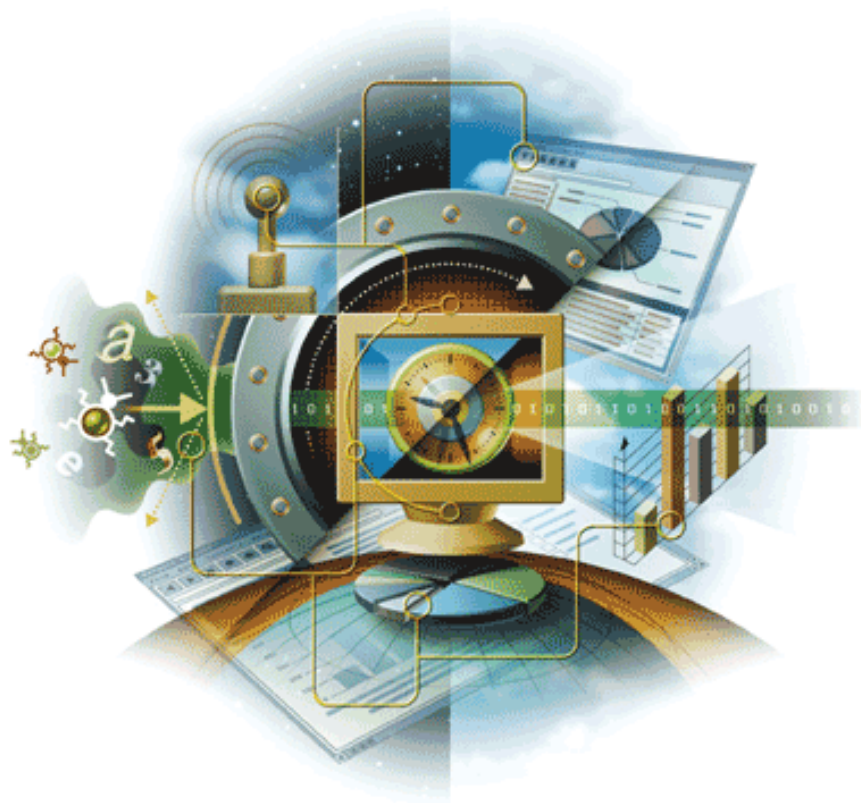


# VirusScan<sup>®</sup> Enterprise

version 8.5i



**McAfee<sup>®</sup>**  
Proven Security

Industry-leading intrusion prevention solutions

**McAfee<sup>®</sup>**



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version 8.5i

**McAfee<sup>®</sup>**  
Proven Security

Industry-leading intrusion prevention solutions

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# 1

## Introducing VirusScan Enterprise

McAfee® VirusScan Enterprise 8.5*i* offers easily scalable protection, fast performance, and mobile design to protect you from viruses, worms, Trojan horses, as well as potentially unwanted code and programs.

This guide provides information about installing, modifying, and removing VirusScan Enterprise software.

---

### Using this guide

Consider the following when using this guide:

- [Audience](#).
- [Conventions on page 7](#).

#### **Audience**

This information is intended primarily for two audiences:

- Network administrators who are responsible for their company's security program.
- Users who are responsible for installing this product, updating detection definition (DAT) files on their computers, or configuring the software's detection options.

## Conventions

This guide uses the following conventions:

**Bold** All words from the interface, including options, menus, buttons, and dialog box names.

**Condensed** **Example:**  
Type the **User** name and **Password** of the appropriate account.

*Courier* The path of a folder or program; text that represents something the user types exactly (for example, a command at the system prompt).

**Examples:**  
The default location for the program is:  
`C:\Program Files\McAfee\EPO\3.5.0`  
Run this command on the client computer:  
`scan --help`

*Italic* For emphasis or when introducing a new term; for names of product documentation and topics (headings) within the material.

**Example:**  
Refer to the *VirusScan Enterprise Product Guide* for more information.

*Blue* A web address (URL) and/or a live link.

**Example:**  
Visit the McAfee website at:  
<http://www.mcafee.com>

<TERM> Angle brackets enclose a generic term.

**Example:**  
In the console tree, right-click <SERVER>.



**Note:** Supplemental information; for example, another method of executing the same command.



**Tip:** Suggestions for best practices and recommendations from McAfee for threat prevention, performance and efficiency.



**Caution:** Important advice to protect your computer system, enterprise, software installation, or data.

# 2

## Pre-Installation Information

McAfee recommends that you review these topics before installing the VirusScan Enterprise 8.5i software:

- *Getting product software and documentation.*
- *Reviewing release notes.*
- *Verifying installation rights.*
- *Preserving settings during product upgrade on page 9.*
- *Meeting system requirements on page 10.*
- *Deploying, updating, and managing options on page 11.*
- *Preconfiguring the installation package on page 11.*
- *Installing and configuring the software for use with other products on page 11.*
- *Upgrading the product license on page 12.*



---

## Getting product software and documentation

Get the VirusScan Enterprise software and documentation from one of these locations:

- The product CD.
- The McAfee download site at:  
<https://secure.nai.com/us/forms/downloads/upgrades/login.asp>



Logon credentials are required to download products from this website.

---

## Reviewing release notes

Review the release notes, README.TXT, to identify last minute changes or known issues.

---

## Verifying installation rights

Verify that you have local administrator rights for the computer where you plan to install VirusScan Enterprise.

---

## Preserving settings during product upgrade

If you are installing VirusScan Enterprise on a computer with an earlier version of VirusScan Enterprise, you can preserving settings from the earlier version.

- Configuration settings for saved tasks.
- User-specified extensions.
- Exclusions settings.
- Access protection rules are preserved using this logic:
  - 1 The current VirusScan Enterprise rules are read from the registry.
  - 2 Each of the local VirusScan Enterprise rules are compared against all of the VirusScan Enterprise 8.0 default rules.
  - 3 If no exact match is found when comparing local rules to the default rules, then the rule is added to the list of rules to preserve.
  - 4 For port blocking rules, if the local rule differs from the default rule only in its inclusions, then the rule is placed in a separate list of rules to be merged with the equivalent VirusScan Enterprise 8.5i rules.
  - 5 The white list for each of the port rules, from [Step 4](#), is merged with the white list of the equivalent VirusScan Enterprise 8.5i rule, and a newly formed rule is written to the registry for use by VirusScan Enterprise 8.5i.
  - 6 The modified default rules, if any from [Step 3](#), are converted to the new VirusScan Enterprise 8.5i rule format and written to the registry. These preserved rules are included in the user-defined rules.



The decision to combine the white lists of the port blocking rules that have only had their white list modified is based on the assumption that the user has specific software that they do not want blocked by the default port blocking rule.

- Detection definition (DAT) file version, if the previous version is later than the version in the installation package.
- Scanning engine version, if the previous version is later than the version in the installation package.
- Log file names and locations are preserved.



Although the name and location are preserved, the log file format is changed from ANSI to UTF8. When the format is changed, the log file is renamed to \*.BAK.

The registry keys containing installation file locations and product versions are not preserved.

If you do not want to preserve settings, you can deselect the option during installation or remove the previous version of the software before installing the current version.

## Meeting system requirements

Verify that your server or workstation meets these system requirements before you start the installation process:

- **Processor** — An Intel processor or compatible architecture. McAfee recommends an Intel Pentium or Celeron processor running at a minimum of 166MHz.
- **Operating system** — Any of these Microsoft® Windows® platforms:

### Server

Windows NT Server 4.0, with Service Pack 6 or 6a.

Windows NT Enterprise Server 4.0 with Service Pack 6 or 6a.

Windows NT Terminal Server Edition, with Service Pack 6

Windows 2000 Server, with Service Pack 3 or 4.

Windows 2000 Advanced Server, with Service Pack 3 or 4.

Windows Server 2003, with Service Pack 1.

Windows Storage Server 2003

### Workstation

Windows NT Workstation 4.0, with Service Pack 6 or 6a.

Windows 2000 Professional, with Service Pack 3 or 4.

Windows XP Home Edition, with Service Pack 1 or 2.

Windows XP Professional, with Service Pack 1 or 2.

Windows XP Tablet PC Edition, with Service Pack 1 or 2.

Windows XP Professional x64 Edition, with Service Pack 1 or 2.

- **Browser** — Microsoft Internet Explorer, version 5.0 or later.
- **Windows Installer** — Microsoft Windows Installer (MSI), version 3.1 unless installing on a Windows NT platform that uses MSI version 2.0.



Microsoft Windows Installer (MSI), version 3.1 provides the ability to remove a patch. Consequently, if you are using a Windows NT platform, you cannot remove patches.

- **Memory** — 32MB RAM minimum. For information on optimal operating system performance, review the Microsoft guidelines for minimum RAM configuration.
- **Free disk space** — 140mb for a complete installation of all the program's features and components, including a copy of the installation MSI file for repair ability.
- **Other** — A CD-ROM drive or an Internet connection from which you can install or download the product software.

---

## Deploying, updating, and managing options

Decide whether you want to preconfigure the installation package and how you want to perform updates and deploy the product. The installation procedure may vary if you use supporting tools to deploy, preconfigure, update, or manage VirusScan Enterprise.

### Preconfiguring the installation package

Use McAfee Installation Designer 8.5 to preconfigure or customize the installation options for VirusScan Enterprise. When preconfiguring the installation package, we recommend including:

- Where and how you get updates.
- When you check for updates (the default is daily at 17:00 local time to the computer).
- Which policy settings should be defined.

See the *McAfee Installation Designer 8.5 Product Guide* for more information.

### Deploying the installation package

Use ePolicy Orchestrator version 3.5 or later to push the software to client computers.



We recommend that before you push the software to client computers, you use McAfee Installation Designer to replace or update the default detection definition (DAT) and engine files included in the installation package. This ensures that the client computer has the most current protection at installation time. It also saves network bandwidth by not having to retrieve the updated files after installation.

### Installing and configuring the software for use with other products

When installing VirusScan Enterprise software where third-party products are installed, or when using it with supporting products, you may need to change the installation procedure or perform additional configuration

For example, if you are using the Setup utility to install the VirusScan Enterprise software where Windows 2003 with Terminal Services is installed, the installation stops and you are notified that you must install the program files using the Windows Add/Remove Programs utility.



This installation method is not required if you are using ePolicy Orchestrator to deploy VirusScan Enterprise.

---

## Upgrading the product license

If you are installing the product for the first time, the product is licensed during the installation process. Skip this section and go to [Installing VirusScan Enterprise on page 13](#).

If you are installing a licensed version over an evaluation version of VirusScan Enterprise, you must upgrade the license. The license does not automatically upgrade itself from an evaluation version.



Perform the license upgrade before the evaluation period expires. If you do not, the scanning and updating functions stop until you replace the evaluation version with a licensed version of the product.

Use one of these methods to upgrade an evaluation version of VirusScan Enterprise to a licensed version:

- Use McAfee Installation Designer to upgrade the license. Refer to the *McAfee Installation Designer Product Guide* for specific details.
- Remove the evaluation version of the product and install the licensed version.



Removing the evaluation version causes you to lose all of the configured settings from that installation. This method is only recommended if you cannot use McAfee Installation Designer to upgrade the license.

# 3

## Installing VirusScan Enterprise

VirusScan Enterprise 8.5i installs on workstations and servers.



See [Pre-Installation Information on page 8](#) for information about preparing for installation.

Install the product software using one of these methods:

- [Using the Setup utility to install program files.](#)
- [Using the command line to install program files on page 17.](#)

---


### Using the Setup utility to install program files

Use the Setup utility that comes with the product to install the product software.


- 1 Start the Setup utility using one of these methods:

Method	Description
<b>Product CD</b>	<ol style="list-style-type: none"><li>1 Insert the CD into the CD-ROM drive.</li><li>2 In the autorun window, select the product that you want to install.</li><li>3 Follow the instructions in the installation wizard to install the product.</li></ol>
<b>Command line</b>	<ol style="list-style-type: none"><li>1 Click <b>Start</b>, then select <b>Run</b>.</li><li>2 Type &lt;X&gt;:\SETUP.EXE in the <b>Run</b> dialog box, then click <b>OK</b>.</li></ol> <p> <b>Notes and Tips</b></p> <p>Here, &lt;X&gt;: represents the drive letter for your CD-ROM, or the path of the folder that contains the extracted program files. If your copy of the software came on a product suite CD, you must also specify which folder contains the specific software package.</p>
<b>Windows Explorer</b>	<ol style="list-style-type: none"><li>1 Browse to the location where you extracted the program files.</li><li>2 Double-click SETUP.EXE.</li><li>3 Follow the instructions in the installation wizard to install the product.</li></ol>




**2 McAfee VirusScan Enterprise Setup** — Review the release notes.

Option or Button	Description
<b>View Readme</b>	<p>Display the release notes for this product.</p> <p> <b>Notes and Tips</b></p> <p>Identify special installation instructions or known issues before you continue with the installation process.</p>

**3 McAfee Licensing** — Choose and read the product license.

Option or Button	Description
<b>License expiry type</b>	<p>Specify the type of license.</p> <p> <b>Notes and Tips</b></p> <p>The license type must match the type of license that you purchased. If you are unsure of which type of license to select, contact the person from whom you purchased the software.</p>
<b>Select location where purchased and used</b>	Select the country in which you are using the software.
<b>I accept the terms in the license agreement</b>	Accept the license agreement and continue the installation.
<b>I do not accept the terms in the license agreement</b>	<p>Do not accept the license agreement and terminate the installation.</p> <p>Select <b>I do not accept the terms in the license agreement</b>, then:</p> <ul style="list-style-type: none"> <li>■ Click <b>Cancel</b> twice.</li> <li>■ Click <b>Yes</b> to confirm that you want to cancel.</li> <li>■ Click <b>Finish</b> to exit the Setup wizard.</li> </ul>

**4 Select Setup Type** — Choose the installation type and location.

Option or Button	Description
<b>Typical</b>	<p>Installs the software with all features.</p> <p> <b>Notes and Tips</b></p> <p>We recommend a typical installation for most environments.</p>
<b>Custom</b>	<p>Installs the software with all or selected features and allows you to customize some settings.</p> <p> <b>Notes and Tips</b></p> <p>Use custom installation to install only selected features, import an AutoUpdate repository list, or specify user interface settings during the installation process.</p>
<b>Install To</b>	<p>Accept the default installation location or specify a new location.</p> <p> <b>Notes and Tips</b></p> <p>By default, Setup installs the VirusScan Enterprise program files to this path:</p> <p>&lt;drive&gt;:\Program Files\McAfee\VirusScan Enterprise\</p>
<b>Disk Space</b>	View the disk space requirements for this installation.



**5 Select Access Protection Level** — Choose which access protection rules are enabled by default when this feature is installed.

Option or Button	Description
<b>Standard Protection</b>	Anti-virus and common rules that protect some critical settings and files from being modified, but generally allow you to install and execute legitimate software.
<b>Maximum Protection</b>	Anti-virus and common rules that protect most critical settings and files from being modified, but might prevent you from installing legitimate software.

Go to the next step that applies to the installation type you selected:

- **Custom Installation** — Go to [Step 6](#).
- **Typical Installation** — Go to [Step 10 on page 17](#).



**6 Feature Selection** — Select specific features for installation.

Feature	Description
<b>Console</b>	Installs the <b>VirusScan Console</b> and all of its features.   <b>Notes and Tips</b> <i>Default = Console.</i>
<b>AutoUpdate</b>	Installs the feature that automatically updates DAT files, scanning engine, and other product upgrades.
<b>Lotus Notes E-mail Scanner</b>	Installs the feature that scans Lotus Notes e-mail.
<b>Microsoft Outlook E-mail Scanner</b>	Installs the feature that scans Microsoft Outlook e-mail.
<b>On-Access Scan</b>	Installs the scanner that protects your computer from potential threats that arrive on disks, from your network, or from various sources on the network.
<b>Access Protection</b>	Installs the feature that protects your computer's accesses.
<b>Buffer Overflow Protection</b>	<ul style="list-style-type: none"> <li>■ Installs the feature that protects your computer from buffer overflow exploits.</li> <li>■  <b>Notes and Tips</b></li> <li>■ This feature will not be installed on 64-bit systems.</li> <li>■ This feature will not be installed if either the Host Intrusion Prevention (Entercept) agent or the Cisco Security agent are found on the local computer.</li> </ul>
<b>Script Scan</b>	Installs the feature that scans Java Script and VBScript scripts before they are executed.
<b>On-Demand Scan</b>	Installs the scanner that allows you to perform either immediate or scheduled on-demand scan tasks.
<b>Right-click Scan</b>	Installs the feature that allows you to perform on-demand right-click scan tasks.

**7 Feature action options** — For each selected feature, you can also select a corresponding action from the drop-list next to the feature name:

- This feature will be installed on local hard drive.
- This feature, and all subfeatures, will be installed on local hard drive.
- This feature will not be available.

**8 Product Configuration** — Import a repository list and/or choose whether to enable the on-access scanner when the installation completes.

Option	Description
<b>Import AutoUpdate repository list</b>	<p>Import the repository list from the location you specify.</p> <p> <b>Notes and Tips</b></p> <ol style="list-style-type: none"> <li>1 The repository list must be located on a local drive; it cannot be imported from a mapped drive or a network drive.</li> <li>2 This option is selected by default only if a repository list is included in the installation file (.MSI) or the command-line property (cmasourcedir) has been set to a new location to point to the SITELIST.XML file.</li> <li>3 If you do not import a repository list at this time, and one resides in the installation folder, it will be imported even though you do not select this option. If a repository list is not imported, AutoUpdate performs updates using the default McAfee site as its repository list.</li> <li>4 See the <i>AutoUpdate</i> section in the <i>VirusScan Enterprise Product</i></li> </ol>
<b>Enable On-Access Scanner at the end of installation</b>	<p>Automatically start the on-access scanner upon completion of the installation process.</p> <p> <b>Notes and Tips</b></p> <p>We recommend that you select this option to provide maximum security.</p>

**9 Security Configuration** — Specify password security and which system tray options users can access.


Option or Button	Description
<b>Password</b>	Specify a password for user interface security.
<b>Confirm Password</b>	Type the password again to confirm it.
<b>Do not display the VirusScan items under the Start menu.</b>	Do not display the Start menu shortcuts for VirusScan Enterprise.
<b>Show the system tray icon with all menu options</b>	Allow users to see all menu items on the system tray icon menu.
<b>Show the system tray icon with minimal menu options</b>	Hide all options on the system tray menu except <b>About VirusScan Enterprise</b> and <b>On-Access Scan Statistics</b> .
<b>Do not show the system tray icon</b>	Hide the system tray icon from all users.



You can also configure these security options after installation. See the *VirusScan Enterprise Product Guide* for details.



**10 Ready to install** — Start the installation process.

Option or Button	Description
<b>Install</b>	Begin installing the product software.   <b>Notes and Tips</b> If you are not satisfied with all of the installation settings, click <b>Back</b> to review or change any of the settings. When ready, return to the <b>Ready to install</b> dialog box and click <b>Install</b> .

**11 McAfee VirusScan Enterprise setup has completed successfully** — Choose whether to perform an update task and/or an on-demand scan when the installation completes.

Option or Button	Description
<b>Update Now</b>	Automatically run an update task when the installation completes.
<b>Run On-Demand Scan</b>	Automatically run a <b>Full Scan</b> when the installation completes.
<b>Finish</b>	Complete the installation.



If you select both the **Update Now** and **Run On-Demand Scan** options, the update task runs first, then the on-demand scan task runs.

## Using the command line to install program files

Installing VirusScan Enterprise from the command line allows you to customize the installation so that it runs the way you want and installs exactly the product features you want.

Review [Meeting system requirements on page 10](#) before you begin the installation process.



You can run Setup from the command line to install the VirusScan Enterprise software to your *local* computer, but only if you have local administrator rights.

This section describes:

- [Command-line syntax on page 18](#).
- [Installation scenarios on page 19](#).
- [Installation options and properties on page 19](#).
- [Restart options on page 21](#).



## Command-line syntax

To install the product from the command line:

- 1 Open the Windows command-line component using one of these methods:
  - Select **Command Prompt** from the **Start** menu.
  - Select **Run** from the **Start** menu.
- 2 Type the command line at the command prompt or in the **Run** dialog box.


```
setup.exe PROPERTY=VALUE[, VALUE] [/option]
```

This syntax does not require any specific order in its elements, except that you can not separate a property and its value. The syntax consists of:

Item	Description
<b>File name</b>	The name of the executable file, setup.exe.
<b>Options</b>	<p>Specify options for installing the software. For example, perform a silent installation and/or record installation progress in a log file.</p> <p>Each option is preceded by a forward slash (/) and is not case-sensitive.</p> <p> <b>Notes and Tips</b></p> <p>The installation scenarios that appear later in this guide discuss some of the available options.</p>
<b>Properties</b>	<p>Specify how the installation runs. Each property consists of:</p> <ul style="list-style-type: none"> <li>■ A name, which must appear in uppercase letters.</li> <li>■ An equal (=) sign.</li> <li>■ One or more values, each separated by commas. Most property values must appear in uppercase letters, but some, such as <b>True</b> and <b>False</b>, must appear in mixed case.</li> </ul> <p> <b>Notes and Tips</b></p> <p>The Microsoft Installer permits a variety of properties that determine how your installation runs. To learn about those properties, see the Microsoft Installer documentation.</p>

## Installation scenarios

Use these scenarios to customize your installation:

Scenario	Description
<b>Silent</b>	<p>A silent installation does not display the installation wizard or offer the user any configuration options. Instead, you preconfigure those choices and run Setup in the background on each destination computer. You can install VirusScan Enterprise software on any unattended computer with or without the user's knowledge, provided you have the necessary administrator rights.</p> <p>Add these options to run a silent or semi-silent installation:</p> <ul style="list-style-type: none"> <li>■ <b>q or qn</b> Silent installation. This installs default settings unless you specify otherwise. For example, the product license default is a 1 Year Subscription.</li> <li>■ <b>qb</b> Basic user interface. Use qb! to hide the Cancel button.</li> <li>■ <b>qb+</b> Basic user interface with a modal dialog box displayed at the end of installation. Use qb+! or qb!+ to hide the Cancel button. The modal dialog box is not displayed if the user cancels the installation.</li> <li>■ <b>qb-</b> Basic user interface with no modal dialog boxes. Use qb-! or qb!- to hide the Cancel button.</li> <li>■ <b>qf</b> Full user interface and any authored FatalError, UserExit, or Exit modal dialog box displayed at the end of installation.</li> <li>■ <b>qn+</b> No user interface except for a modal dialog box displayed at the end of installation.</li> <li>■ <b>qr</b> Reduced user interface with no modal dialog displayed at the end of installation</li> </ul>
<b>Custom Location</b>	<p>Add the <b>installdir</b> property to specify the location. For example, to silently install VirusScan Enterprise software to C:\My AntiVirus Software, type this text at the command prompt:</p> <pre>setup.exe INSTALLDIR="c:\My AntiVirus Software" /q</pre>
<b>Login Script</b>	<p>Add a <b>Setup</b> command to your login script to install VirusScan Enterprise software at the time each of your destination computers starts. Include all of the options and properties for governing how Setup runs. For example, you can add a property to look for the VirusScan Enterprise default program location.</p> <p> <b>Notes and Tips</b></p> <p>To use a login script for this purpose, you must also copy or push the VirusScan Enterprise installation package to a local location on the destination computer.</p>

## Installation options and properties

Use a combination of options and properties to customize the software installation.



This section describes:

- [Selecting features on page 20.](#)
- [Restart options on page 21.](#)
- [Installation progress options on page 21.](#)
- [Installation properties on page 22.](#)
- [Command-line examples on page 24.](#)

## Selecting features


When you run Setup from the command line to install specific program features, the utility installs those features according to a pre-existing hierarchy. For example, if you specify **ScriptScan**, Setup knows that you must have the on-access scanner installed to use those features. It therefore installs any required files.

Use these feature names as command-line parameters:

Feature	Description
<b>Console</b>	Installs the <b>VirusScan Console</b> and all of its features.   <b>Notes and Tips</b> <i>Default = Console.</i>
<b>AutoUpdate</b>	Installs the feature that automatically updates DAT files, scanning engine, and other product upgrades.
<b>LotusNotesScan</b>	Installs the feature that scans Lotus Notes e-mail.
<b>EmailScan</b>	Installs the feature that scans Microsoft Outlook e-mail.
<b>OnAccessScanner</b>	Installs the scanner that protects your computer from potential threats that arrive on disks, from your network, or from various sources on the network.
<b>AccessProtection</b>	Installs the feature that protects your computer's accesses.
<b>BufferOverflow</b>	<ul style="list-style-type: none"> <li>■ Installs the feature that protects your computer from buffer overflow exploits.</li> <li>■  <b>Notes and Tips</b></li> <li>■ This feature will not be installed on 64-bit systems.</li> <li>■ This feature will not be installed if either the Host Intrusion Prevention (Entercept) agent or the Cisco Security agent are found on the local computer.</li> </ul>
<b>ScriptScan</b>	Installs the feature that scans Java Script and VBScript scripts before they are executed.
<b>OnDemandScanner</b>	Installs the scanner that allows you to perform either immediate or scheduled on-demand scan tasks.
<b>ShellExtensions</b>	Installs the feature that allows you to perform on-demand right-click scan tasks.

## Restart options

You can force a restart if one is required, prevent the destination computer from restarting during the installation or always perform a restart. To do this, add the REBOOT property to the command line:

Option	Description
REBOOT=F	Forces a restart if one is required.
REBOOT=R	Prevents a restart.   <b>Notes and Tips</b> To run a silent installation and prevent a system restart: <pre>setup.exe REBOOT=R /q</pre>
REBOOT=A	Always restarts.

## Installation progress options

To record installation progress in a log file, add this option and parameter to the Setup command line:

```
/l*v "c:\temp\log.txt"
```







Here, c:\temp\log.txt can be any location and any file name you want to use to create the log file. This option logs all installer activity, including all files copied, all registry keys added, and all .INI file changes.






Replace the asterisk (\*) shown in the command-line example, with one or more of these parameters to limit the type of data that the log file records:

Option	Description
i	status messages
w	non-fatal warnings
e	all error messages
a	action starts
r	action-specific records
u	user requests
c	initial user interface parameters
m	out-of-memory or fatal exit information
o	out-of-disk-space messages
p	terminal properties
+	append to existing file
!	flush each line to the log

## Installation properties

Use these properties to customize the command-line installation:

Property	Description
<b>ADDLOCAL</b>	Installs specific features to the local computer.
<b>CMASOURCEDIR</b>	<p>Set the source path for the SITELIST.XML file. The default path is: %TEMP%\NAITemp.</p> <p> <b>Notes and Tips</b></p> <p>The repository list must be located on a local drive and cannot be imported from a mapped or a network drive.</p>
<b>ENABLEONACCESSSCANNER</b>	<p>False = A False value cannot be set.</p> <p>True = Enable on-access scanner when the installation completes (Default).</p> <p> <b>Notes and Tips</b></p> <p>If you do not want to enable the on-access scanner, set the property to "", an empty string.</p> <p>For example: ENABLEONACCESSSCANNER=""</p>
<b>EXTRADATSOURCEDIR</b>	Set the source path for the EXTRA.DAT file. During installation, the EXTRA.DAT file is copied into the location where the engine files reside.
<b>ICONLOCKDOWN</b>	<p>False = A False value cannot be set.</p> <p>True = Do not display any icons.</p> <p> <b>Notes and Tips</b></p> <ul style="list-style-type: none"> <li>■ The default is an empty string.</li> <li>■ To display icons, set the property to "", an empty string.</li> </ul> <p>For example: ICONLOCKDOWN=""</p>
<b>INSTALLDIR</b>	<p>Specifies the installation folder.</p> <p> <b>Notes and Tips</b></p> <p>The value consists of the installation path.</p>
<b>LOCKDOWNSHORTCUTS</b>	<p>False = A False value cannot be set.</p> <p>True = Do not display any shortcuts under the <b>Start</b> menu.</p> <p> <b>Notes and Tips</b></p> <ul style="list-style-type: none"> <li>■ The default is an empty string.</li> <li>■ To allow the shortcuts to be installed, set the property to "", an empty string.</li> </ul> <p>For example: LOCKDOWNSHORTCUTS=""</p>
<b>PRESERVESETTINGS</b>	<p>False = A False value cannot be set.</p> <p>True = Preserve settings (Default).</p> <p> <b>Notes and Tips</b></p> <ul style="list-style-type: none"> <li>■ Preserves settings when upgrading from NetShield®, VirusScan, or an earlier version of VirusScan Enterprise.</li> <li>■ If you do not want to preserve settings, set the property to "", an empty string.</li> </ul> <p>For example: PRESERVESETTINGS=""</p>

Property	Description
<b>REBOOT</b>	Restart your computer.   <b>Notes and Tips</b> You can force the computer to restart if it is required, or prevent it from restarting.
<b>REMOVE</b>	Removes one or more program features. You can specify a feature, or use the value <code>ALL</code> to remove all features. If you combine this property with the <code>ADDLOCAL</code> property, you can install all but one or two specific features.
<b>RUNAUTOUPDATE</b>	False = A False value cannot be set. True = Run update when the installation completes (Default).   <b>Notes and Tips</b> <ul style="list-style-type: none"> <li>■ Use this command when performing interactive installations.</li> <li>■ If you do not want to run update when the installation completes, set the property to "", an empty string. For example: <code>RUNAUTOUPDATE=""</code></li> </ul>
<b>RUNAUTOUPDATESILENTLY</b>	False = A False value cannot be set. True = Run silent update when the installation completes.   <b>Notes and Tips</b> <ul style="list-style-type: none"> <li>■ The default is an empty string.</li> <li>■ Use this command when performing silent updates.</li> <li>■ If you do not want to run a silent update when the installation completes, set the property to "", an empty string. For example: <code>RUNAUTOUPDATESILENTLY=""</code></li> </ul>
<b>RUNONDEMANDSCAN</b>	False = A False value cannot be set. True = Run a scan of all local drives when the installation completes (Default).   <b>Notes and Tips</b> <ul style="list-style-type: none"> <li>■ Use this command when performing interactive installations.</li> <li>■ If you do not want to run the on-demand scanner when the installation completes, set the property to "", an empty string. For example: <code>RUNONDEMANDSCAN=""</code></li> </ul>
<b>RUNONDEMANDSCANSILENTLY</b>	False = A False value cannot be set. True = Run on-demand scan silently when the installation completes.   <b>Notes and Tips</b> <ul style="list-style-type: none"> <li>■ The default is an empty string.</li> <li>■ Use this command when performing silent installations.</li> <li>■ If you do not want to run a silent on-demand scan when the installation completes, set the property to "", an empty string. For example: <code>RUNONDEMANDSCANSILENTLY=""</code></li> </ul>

## Command-line examples

Option	Command & Description
<b>Complete silent installation</b>	<code>setup.exe ADDLOCAL=ALL /q</code> Silently installs all features.
<b>Installing more than one feature.</b>	Use a comma. For example: <code>setup.exe ADDLOCAL=OnAccessScanner,ScriptScan /q</code> Silently installs the On-Access Scanner and Script Scan.
<b>Install all features except one</b>	<code>setup.exe ADDLOCAL=ALL REMOVE=ScriptScan /q</code> Silently installs all features except for Script Scan.
<b>Remove all features</b>	<code>setup.exe REMOVE=ALL /q</code> Silently removes all features.
<b>Installing features using a loud installation</b>	Omit the <code>/q</code> option in any of the command-line examples shown here. Installs specified features.



# 4

## Modifying, Repairing & Removing VirusScan Enterprise

Use the **Program Maintenance** feature to modify, repair, or reinstall the VirusScan Enterprise program files.

This section describes:

- [Modifying installed features.](#)
- [Reinstalling or repairing program files on page 27.](#)
- [Removing program files on page 30.](#)

---

### Modifying installed features

Use the **Program Maintenance** to change which features are installed:


- [Using the Setup utility to modify installed features on page 26.](#)
- [Using the command line to modify installed features on page 27.](#)



You cannot use this feature to change the specified **Install To** path and/or **Disk Space**. To change the installation path, you must first remove the product, then reinstall the product to the required path.

## Using the Setup utility to modify installed features

- 1 Start the Setup utility. See [Using the Setup utility to install program files on page 13](#) for details
- 2 **Program Maintenance** — Select **Modify**.
- 3 **Feature Selection** — Select specific features for installation. See [Step 6 on page 15](#) for details.
- 4 **Feature action options** — For each selected feature, you can also select a corresponding action from the drop-list next to the feature name:
  - This feature will be installed on local hard drive.
  - This feature, and all subfeatures, will be installed on local hard drive.
  - This feature will not be available.
- 5 **Ready to install** — Start the installation process.

Option or Button	Description
<b>Install</b>	Begin installing the product software.   <b>Notes and Tips</b> If you are not satisfied with all of the installation settings, click <b>Back</b> to review or change any of the settings. When ready, return to the <b>Ready to install</b> dialog box and click <b>Install</b> .

- 6 **McAfee VirusScan Enterprise setup has completed successfully** — Choose whether to perform an update task and/or an on-demand scan when the installation completes and finish the installation.

Option or Button	Description
<b>Update Now</b>	Automatically run an update task when the installation completes.
<b>Run On-Demand Scan</b>	Automatically run a <b>Full Scan</b> when the installation completes.
<b>Finish</b>	Complete the installation.



If you select both the **Update Now** and **Run On-Demand Scan** options, the update task runs first, then the on-demand scan task runs.

## Using the command line to modify installed features

Open the Windows command-line component. See [Command-line syntax on page 18](#) for details.

Install or remove features individually using a comma-separated list, or you can specify the ALL property. See [Selecting features on page 20](#) for a list of feature names.

Option	Command
<b>Add a feature</b>	<code>setup.exe ADDLOCAL=OnAccessScanner,ScriptScan /q</code>
<b>Remove a feature</b>	<code>setup.exe REMOVE=ScriptScan,ShellExtentions/q</code>
<b>Installing features using a loud installation</b>	Omit the /q option in any of the command -line examples shown here.

---

## Reinstalling or repairing program files



Use **Program Maintenance** to reinstall product features or repair program files.

This section describes:

- [Using the Setup utility to reinstall or repair program files.](#)
- [Using the command line to reinstall or repair program files on page 29.](#)

## Using the Setup utility to reinstall or repair program files

- 1 Start the Setup utility. See [Using the Setup utility to install program files](#) on page 13.
- 2 **Program Maintenance** — Select **Repair**.
- 3 **Reinstall or Repair the Product** — Choose whether to reinstall or repair VirusScan Enterprise program files.

Option or Button	Description
<b>Reinstall McAfee VirusScan Enterprise</b>	Reinstalls the VirusScan Enterprise program files, registry keys, and shortcuts.
<b>Detect and repair missing or corrupt files</b>	<p>Finds missing or corrupt program files and repairs them.</p> <p> <b>Notes and Tips</b></p> <ul style="list-style-type: none"> <li>■ This feature does not support repairing update components. If an AutoUpdate file is removed or corrupted, you must remove the AutoUpdate component, then reinstall it.</li> <li>■ If you manually remove or rename any of the program files, the repair feature may fail. See the <i>Troubleshooting</i> appendix in the <i>VirusScan Enterprise Product Guide</i> for detailed instructions about trying to repair files after they have been removed or renamed.</li> </ul>
<b>Re-write registry keys</b>	<p>Re-writes registry keys as necessary during the repair process.</p> <p> <b>Notes and Tips</b></p> <p>This option is available only for <b>Detect and repair missing or corrupt files</b>.</p>
<b>Install</b>	Begin the installation process.

- 4 **McAfee VirusScan Enterprise setup has completed successfully** — Choose whether to perform an update task and/or an on-demand scan when the installation completes and finish the installation.

Option or Button	Description
<b>Update Now</b>	Automatically run an update task when the installation completes.
<b>Run On-Demand Scan</b>	Automatically run a <b>Full Scan</b> when the installation completes.
<b>Finish</b>	Complete the installation.



If you select both the **Update Now** and **Run On-Demand Scan** options, the update task runs first, then the on-demand scan task runs.

## Using the command line to reinstall or repair program files

Open the Windows command-line component.

Topic	Description
<b>Command-line Syntax</b>	<p>Use this syntax to:</p> <ul style="list-style-type: none"> <li>■ Reinstall the product:           <pre>msiexec /I{product code}REINSTALL=[feature]REINSTALLMODE=[option]</pre> </li> <li>■ Remove a feature:           <pre>msiexec /f[option]{product code}</pre> </li> </ul>
<b>Selecting Features</b>	See <a href="#">Selecting features on page 20</a> for details.
<b>Command-line Options</b>	<p>Use any combination of these options:</p> <ul style="list-style-type: none"> <li>■ <b>p</b> Reinstall only if file is missing.</li> <li>■ <b>o</b> Reinstall if file is missing or if an older version is installed.</li> <li>■ <b>e</b> Reinstall if file is missing or an equal or older version is installed.</li> <li>■ <b>d</b> Reinstall if file is missing or a different version is installed.</li> <li>■ <b>c</b> Reinstall if file is missing, or if the stored checksum does not match the calculated value. Only repairs files that have msidbFileAttributesChecksum in the Attributes column of the File table.</li> <li>■ <b>a</b> Force all files to be reinstalled.</li> <li>■ <b>u</b> Rewrite all required user-specified registry entries.</li> <li>■ <b>m</b> Rewrite all required system-specific registry entries.</li> <li>■ <b>s</b> Overwrite all existing shortcuts.</li> <li>■ <b>p</b> Run from source and re-cache the local package.</li> </ul>

---

## Removing program files

Use one of these methods to remove the software.

### Using the Setup utility to remove program files

- 1 Start the Setup utility to open the **Program Maintenance** dialog box:
- 2 Select **Remove**.
- 3 Select **Remove** again, then click **Finish**.



After VirusScan Enterprise is removed, you may be prompted to remove remaining files or folders. Click **Yes** or **No**.

These are files or folders which were not installed initially with the VirusScan Enterprise product such as, log files or other files or folders that the user added. For example, the aseinst.log is used for debugging and is left in the %TEMP%\MCAFEELOGS folder.

### Using the command line to remove program files

Use this syntax to remove the software:

```
<X>: \SETUP.EXE /x
```

Here, <X>: represents the drive letter for your CD-ROM or the path of the folder that contains the extracted program files. To search for the correct files on your hard disk or CD, click Browse. If your copy of the software came on a product suite CD, you must also specify which folder contains the specific software package.

### Using the Add/Remove Programs utility to remove program files

- 1 Click **Start**, then select **Settings | Control Panel | Add/Remove Programs** to open the **Add/Remove Programs** utility that is included in the Windows Control Panel
- 2 Select the VirusScan Enterprise program from the list of installed programs, then click **Remove**.



We strongly recommend that you restart your computer after removing files and before you reinstall the software.

When you remove files using Setup on the command line, some files or stopped services may not be removed. For example, if you remove the VirusScan Enterprise product while the McAfee Task Manager or the McShield services are stopped, these services are not removed. Restarting after removing files ensures that all files and services are removed before reinstalling the software.

# 5

## Post-Installation Tasks

This section describes:

- [Testing your installation.](#)
- [Locating installed files on page 32.](#)

---

### Testing your installation

Once installed, the software can scan your system for potentially unwanted files. You can test whether it is installed correctly and can properly scan for potentially unwanted programs by implementing a test developed by the European Institute for Computer Anti-Virus Research (EICAR).

To test your installation:

- 1 Using a standard Windows text editor such as Notepad, type the following string, *on a single line with no spaces or line breaks*:  
  
`X5O!P%@AP[4\PZX54(P^)7CC)7}$EICAR-STANDARD-ANTIVIRUS-TEST-FILE!$H+H*`
- 2 Save the file with the name EICAR.COM. The file size is 68 or 70 bytes. Make a note of the folder in which you saved the file.
- 3 Start the VirusScan Enterprise program.
- 4 To test the on-demand scanner, create an on-demand scan task that examines the folder where you saved EICAR.COM. When the scanner examines this file, it reports finding the EICAR test file.
- 5 To test the on-access scanner, confirm that the on-access scanner is configured to scan files written to the computer and files read from the computer. See *Configuring the on-access scanner properties* in the *VirusScan Enterprise Product Guide* for additional information. Locate the EICAR.COM file and try to copy or move it to another location. The scanner reports finding the EICAR test file when it examines the file.



This file is *not a virus* —it cannot spread, infect other files, or harm your system. Delete the file when you have finished testing your installation to avoid alarming other users.

## Locating installed files

During installation, files are installed in various locations.

Two types of files are installed:

- [Product files](#).
- [System files on page 33](#).

## Product files

Product files are installed in the installation path, which is determined during installation. The default installation path is:

```
<drive>:\Program Files\McAfee\
```

Product files are installed in these folders:

- [VirusScan Enterprise folder](#).
- [Resources folders on page 33](#).
- [Engine folder on page 33](#).
- [Engine folder/x64 on page 33](#).

## VirusScan Enterprise folder

These files are installed to the VirusScan Enterprise folder in the installation path:

AdsLokUU.Dll	msscshield.exe	mfetdik.sys	readme.txt
BBCpl.dll	McShieldPerData.dll	msiutil.dll	scan32.exe
condl.dll	McShieldPerData.h	mytilus.dll	ScanOTLK.dll
consl.dll	McShieldPerData.ini	mytilus2.dll	scncfg32.exe
coptcpl.dll	McShieldPerData.reg	naevent.Dll	scriptproxy.dll
csscan.exe	mcupdate.exe	naiann.dll	shcfg32.exe
EmAbout.dll	Mcvssnmp.dll	naievent.dll	shext.dll
EmCfgCpl.dll	mfeapfa.dll	nailite.dll	shstat.exe
entsrv.dll	mfeapfk.sys	NCDaemon.exe	shutil.dll
EntvUtil.exe	mfeavfa.dll	NCExtMgr.dll	vscan.bof
FtCfg.dll	mfeavfk.sys	NCInstall.dll	VsEvtUI.DLL
Ftl.dll	mfebopa.dll	NCMenu.dll	vsodscpl.dll
graphics.dll	mfebopk.sys	NCScan.dll	vsplugin.dll
lockdown.dll	mfecaka.dll	NCTrace.dll	vstskmgr.exe
logparser.exe	mfecakk.sys	nvpcpl.dll	vsupdate.dll
McAVDetect.DLL	mfehida.dll	OASCpl.dll	vsupdcpl.dll
mcavscv.dll	mfehidin.exe	pireg.exe	wmain.dll
mccconsol.exe	mfehikd.sys	quarcpl.dll	

The default location is: <drive>:\Program Files\McAfee\VirusScan Enterprise



## Resources folders

The resources folder name depends on the language being installed. For example, the English resources folder is named Res0900. These files are installed to the resources folder in the installation path:

mcshield.DLL          strings.bin

The default location is:

<drive>:\Program Files\McAfee\VirusScan Enterprise\Res0900

## Engine folder

The engine folder contains common files and those required to scan 32-bit operating systems. These files are installed to the engine folder in the installation path:

avvclean.dat          avvnames.dat          avvscan.dat          config.dat  
license.dat          mcscan32.dll          messages.datt          signlic.Txt

The default location is: <drive>:\Program Files\Common Files\McAfee\Engine

## Engine folder\x64

The x64 folder contains files required to scan 64-bit operating systems. These files are installed to the engine folder in the installation path:

config.dat\_x64          licenst.dat\_x64          mscan64a.dll          signlic.txt\_x64

The default location is: <drive>:\Program Files\Common Files\McAfee\Engine\x64

## System files

The list of installed system files depends on your operating system. For example, these files are installed to the System32 folder:

msvcrt.dll          psapi.dll

The default location is: <drive>:\Windows\System32\drivers

# A

## Configuring Netopsystems' FEAD Optimizer

The Netopsystems' FEAD Optimizer technology has been used to compress the VirusScan Enterprise installation file. This section provides details about recomposing the installation files from the command line.

These topics are included in this section:

- [Optimized file defaults.](#)
- [Command-line properties and switches on page 35.](#)

---

### Optimized file defaults

These default actions are set:

Action	Default
Execution	Yes
Delete	Yes
Silent	No
Output folder	%TEMP%\McAfee VirusScan Enterprise

## Command-line properties and switches

When executing Setup from the command line, command-line properties and switches can be used with an optimized file to customize the recomposing process of the destination file.

The syntax is:

```
setup.exe [<switches>...]
```

The switches are defined as:

```
<switches> = <Netopsystems' switches>|<VirusScan Enterprise switches>
```

The VirusScan Enterprise switches are the parameters that you pass to the VirusScan Enterprise Setup utility. For example:

```
setup.exe -s -nos_d installdir="c:\abc def"/L
```

```
setup.exe nocdi=true -nos_o"d:\temp" -nos_s reboot=a
```

These command-line properties or switches can be used with an optimized file:

Property or switch	Function
-nos_ne	No execution — Extracts the files from the Setup utility but does not execute the Setup utility or delete the setup files.
-nos_nd	No delete — Does not remove the setup files after executing the Setup utility. If the -nos_ne switch is also present, the -nos_nd switch is overridden.
-nos_d	Delete — Removes the setup files after executing the Setup utility. If the -nos_ne switch is also present, the -nos_d switch is overridden.
-nos_s	Silent mode — Installs the setup files in silent mode. Installs automatically when using: <i>/s, /S, -s, -S, /q, /Q, -q, -Q.</i>
-nos_o"<path>"	Output folder — The folder to which you want to extract the installation files.

# B

## Getting information

This section describes:

- [Product documentation on page 36.](#)
- [Contact information on page 37.](#)

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### Product documentation

Unless otherwise noted, product documentation comes as Adobe Acrobat .PDF files, available on the product CD or from the McAfee download site.

**Installation Guide** — System requirements and instructions for installing and starting the software.

**Product Guide** — Introduction to the product and its features; detailed instructions for configuring the software; information on deployment, recurring tasks, and operating procedures.

**Help** — High-level and detailed information accessed from the software application: **Help** menu and/or **Help** button for page-level help.



The first time you click **Help** after installing the product, you are asked if you want to download the Help file. Click **Yes** to download the Help file and install it to your installation directory.

**Configuration Guide** — *For use with ePolicy Orchestrator®.* Procedures for deploying and managing supported products through the ePolicy Orchestrator management software.

**Release Notes** — *ReadMe.* Product information, resolved issues, any known issues, and last-minute additions or changes to the product or its documentation. *A text file is included with the software application and on the product CD.*

**Quick Reference Card** — A handy card with information on basic product features, routine tasks that you perform often, and critical tasks that you perform occasionally. *A printed card accompanies the product CD.*

**License Agreement** — The McAfee License Agreement booklet that includes all of the license types you can purchase for your product. The License Agreement presents general terms and conditions for use of the licensed product.

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## Contact information

**Threat Center: McAfee Avert® Labs** [http://www.mcafee.com/us/threat\\_center/default.asp](http://www.mcafee.com/us/threat_center/default.asp)

**Avert Labs Threat Library**

<http://vil.nai.com>

**Avert Labs WebImmune & Submit a Sample** *(Logon credentials required)*

<https://www.webimmune.net/default.asp>

**Avert Labs DAT Notification Service**

[http://vil.nai.com/vil/signup\\_DAT\\_notification.aspx](http://vil.nai.com/vil/signup_DAT_notification.aspx)

**Download Site** <http://www.mcafee.com/us/downloads/>

**Product Upgrades** *(Valid grant number required)*

**Security Updates** (DATs, engine)

**HotFix and Patch Releases**

- **For Security Vulnerabilities** *(Available to the public)*

- **For Products** *(ServicePortal account and valid grant number required)*

**Product Evaluation**

**McAfee Beta Program**

**Technical Support** <http://www.mcafee.com/us/support/>

**KnowledgeBase Search**

<http://knowledge.mcafee.com/>

**McAfee Technical Support ServicePortal** *(Logon credentials required)*

[https://mysupport.mcafee.com/eservice\\_enu/start.swe](https://mysupport.mcafee.com/eservice_enu/start.swe)

### Customer Service

**Web**

<http://www.mcafee.com/us/support/index.html>

<http://www.mcafee.com/us/about/contact/index.html>

**Phone** — US, Canada, and Latin America toll-free:

**+1-888-VIRUS NO** or **+1-888-847-8766** Monday – Friday, 8 a.m. – 8 p.m., Central Time

### Professional Services

**Enterprise:** <http://www.mcafee.com/us/enterprise/services/index.html>

**Small and Medium Business:** <http://www.mcafee.com/us/smb/services/index.html>

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