

McAfee® VirusScan® Enterprise 8.7i Installation Guide

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Refer to the product Release Notes.

Contents

- Introducing VirusScan Enterprise..... 4**
 - Where to find product information..... 4
- Pre-Installation Tasks..... 5**
 - Preparation for installing the software..... 5
 - System requirements..... 6
 - Product upgrade and preserving settings..... 7
 - Options for preconfiguring, deploying, updating, and managing VirusScan Enterprise..... 8
 - Product license and performing an upgrade..... 8
- Installing VirusScan Enterprise..... 10**
 - Using the Setup utility to install the software..... 10
 - Using the command line to install the software..... 12
 - Installation scenarios..... 13
 - Installation options and properties..... 13
- Post-Installation Tasks..... 17**
 - Testing your installation..... 17
 - Location of installed files..... 17
- Modifying, Repairing and Removing the Software..... 20**
 - Modifying installed features..... 20
 - Using the Setup utility to modify installed features..... 20
 - Using the command line to modify installed features..... 20
 - Reinstalling or repairing program files..... 21
 - Using the Setup utility to reinstall or repair program files..... 21
 - Using the command line to reinstall or repair program files..... 22
 - Removing program files..... 22
 - Using the Setup utility to remove program files..... 22
 - Using the command line to remove program files..... 23
 - Using the Add/Remove Programs utility to remove program files..... 23

Introducing VirusScan Enterprise

VirusScan Enterprise protects your system from viruses, worms, Trojan horses, and potentially unwanted code and programs.

This guide provides system requirements for VirusScan Enterprise software, and information about installing VirusScan Enterprise as a standalone product, as well as modifying, repairing, removing, and reinstalling the software.

To install and manage the product with ePolicy Orchestrator, refer to the ePolicy Orchestrator documentation.

Contents

- ▶ [Where to find product information](#)

Where to find product information

The product documentation is designed to provide you with the information you need during each phase of product implementation, from evaluating a new product to maintaining existing ones. Depending on the product, additional documents might be available. After a product is released additional information regarding the product is entered into the online Knowledgebase available on McAfee ServicePortal.

Installation Phase	Setup Phase	Maintenance Phase
Before, during, and after installation. <i>Release Notes</i> <ul style="list-style-type: none">• Known issues in the current release.• Issues resolved since the last release.• Last-minute changes to the product or its documentation. <i>Installation Guide</i> <ul style="list-style-type: none">• Preparing for, installing and deploying software in a production environment.	Getting up-and-running with the product. <i>Product Guide and Online Help</i> <ul style="list-style-type: none">• Setting up and customizing the software for your environment. <i>Online Help</i> <ul style="list-style-type: none">• Managing and deploying products through ePolicy Orchestrator.• Detailed information about options in the product.	Maintaining the software. <i>Online Help</i> <ul style="list-style-type: none">• Maintaining the software.• Reference information.• All information found in the product guide. <i>Knowledgebase (knowledge.mcafee.com)</i> <ul style="list-style-type: none">• Release notes and documentation.• Supplemental product information.• Workarounds to known issues.

Finding release notes and documentation for McAfee enterprise products

- 1 Go to [knowledge.mcafee.com](#) and select **Product Documentation** under **Useful links**.
- 2 Select **<Product Name>** | **<Product Version>** and select the required document from the list of documents.

Pre-Installation Tasks

Before installing the VirusScan Enterprise software, you need to make sure your system is ready. This section presents a high-level process of tasks to complete before installing the software, and information that can help you prepare for the installation.

Contents

- ▶ Preparation for installing the software
- ▶ System requirements
- ▶ Product upgrade and preserving settings
- ▶ Options for preconfiguring, deploying, updating, and managing VirusScan Enterprise
- ▶ Product license and performing an upgrade

Preparation for installing the software

Complete these tasks before installing the VirusScan Enterprise software.

- 1** Get the VirusScan Enterprise software and documentation from one of these locations:
 - The product CD.
 - The McAfee download site:
<https://secure.nai.com/us/forms/downloads/upgrades/login.asp>
- 2** Review the release notes to identify last minute changes or known issues.
- 3** Verify that you have local administrator rights for the computer where you plan to install VirusScan Enterprise.
- 4** Verify that your server or workstation meets the system requirements before you start the installation process. Refer to *System requirements* for details.
- 5** Decide if you want to preconfigure the installation package, and how you want to update and deploy the product. The installation procedure varies if you use supporting tools to preconfigure, deploy, update, or manage VirusScan Enterprise. Refer to *Options for deploying, updating, and managing VirusScan Enterprise* for details.
- 6** If you are installing a licensed version over an evaluation version of VirusScan Enterprise, you must upgrade the license. The license is not automatically upgraded from an evaluation version. Refer to *Product license and performing an upgrade* for details.

System requirements

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

NOTE: These are minimum requirements and are not optimal for performance. They apply only to VirusScan Enterprise. You must also consider system requirements for any other products you are installing, such as ePolicy Orchestrator.

- **Processor** — An Intel processor or compatible architecture. McAfee recommends an Intel Pentium or Celeron processor running at a minimum of 166 MHz or a Pentium II processor running at a minimum of 350 MHz.
- **Operating system** — This version of VirusScan Enterprise is compatible with any of these Microsoft Windows platforms:

Server	Workstation
<ul style="list-style-type: none">• Windows 2000 Server, with SP4• Windows 2000 Advanced Server, with SP4• Windows 2000 DataCenter Server, with SP4• Windows Server 2003 Standard (32-bit and 64-bit), with SP1 or SP2• Windows Server 2003 Enterprise (32-bit and 64-bit), with SP1 or SP2• Windows Server 2003 Web Edition (32-bit and 64-bit) SP1 and SP2• Windows Server 2003 R2 (32-bit and 64-bit) Standard, Enterprise, Web Edition• Windows Server 2003 R2 Datacenter Edition (32-bit and 64-bit)• Windows Storage Server 2003• Windows Server 2008 (32-bit and 64-bit)• Windows Server 2008 Datacenter (32-bit and 64-bit)• Windows Server Core 2008 (32-bit and 64-bit)	<ul style="list-style-type: none">• Windows 2000 Professional, with SP4• Windows XP Home Edition, with SP1, SP2, or SP3• Windows XP Professional, with SP1, SP2, or SP3• Windows XP Tablet PC Edition, with SP3• Windows Vista Home Basic• Windows Vista Home Premium• Windows Vista Business• Windows Vista Enterprise• Windows Vista Ultimate

- **Browser** — Microsoft Internet Explorer version 5.5 or later.
- **Windows Installer** — Microsoft Windows Installer (MSI) version 3.1 or later.
- **Memory** — 128MB RAM (minimum) for a Pentium or Celeron processor running at 166 MHz and 256MB RAM (minimum) for a Pentium II processor running at 350 MHz. For information on optimal operating system performance, review the Microsoft guidelines for RAM configuration.
- **Free disk space** — 240 MB for a complete installation of all VirusScan Enterprise features and components, including a copy of the installation MSI file for repair ability.
- **Other** — A CD-ROM drive or Internet connection from which you can install or download software.

Product upgrade and preserving settings

If you are installing VirusScan Enterprise on a computer with an earlier version of the product, you can preserve settings from the earlier version. These settings are preserved during the product upgrade:

- Configuration settings for saved tasks.
- User-specified extensions.
- Exclusion settings.
- Access protection rules.
- Detection definition (DAT) file version and scanning engine version, if either previous version is later than the version in the installation package.
- Log file names and locations.

NOTE: 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.

How access protection rules are preserved

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 8.5i default rules.
- 3** If no exact match is found when comparing local rules to the default rules, 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, the rule is placed in a separate list of rules to be merged with the equivalent VirusScan Enterprise 8.7i rules.
- 5** The whitelist for each of the port rules, from Step 4, is merged with the whitelist of the equivalent VirusScan Enterprise 8.7i rule, and a newly formed rule is written to the registry for use by VirusScan Enterprise 8.7i.
- 6** The modified default rules, if any from Step 3, are converted to the new VirusScan Enterprise rule format and written to the registry. These preserved rules are included in the user-defined rules.

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

Options for preconfiguring, deploying, updating, and managing VirusScan Enterprise

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

Preconfigure the installation package

Use McAfee Installation Designer 8.7 to preconfigure or customize the installation options for VirusScan Enterprise 8.7i. When preconfiguring the installation package, McAfee recommends 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 8.7 product guide for more information.

Deploy the installation package

Use ePolicy Orchestrator version 3.6.1 or later to push the software to client computers.

TIP: Before pushing the software to client computers, use McAfee Installation Designer 8.7 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, and saves network bandwidth.

Install and configure 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 might 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 to install the program files using the Windows Add/Remove Programs utility.

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

Product license and performing an upgrade

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

CAUTION: Perform the license upgrade before the evaluation period expires. Otherwise, the scanning function for the on-demand and on-delivery email scanners and the updating function 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 8.7 (*recommended*). Refer to the McAfee Installation Designer 8.7 product guide for details.

- Remove the evaluation version of the product and install the licensed version.

NOTE: Removing the evaluation version causes you to lose all of the configured settings from that installation. Use this method only if you cannot use McAfee Installation Designer 8.7 to upgrade the license.

Installing VirusScan Enterprise

This topic describes how to install the standalone version of the VirusScan Enterprise software. For information about placing a product under ePolicy Orchestrator management, see the ePolicy Orchestrator documentation.

Contents

- ▶ [Using the Setup utility to install the software](#)
- ▶ [Using the command line to install the software](#)

Using the Setup utility to install the software

Use this task to install the standalone version of the VirusScan Enterprise software using the Setup utility.

Task

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

Method	Definition
Product CD	When the CD is loaded, the autorun window appears. Select the product you want to install.
Command line	From the Start menu, select Run , then type the following and click OK : <X>:\SetupVSE.exe The <X> represents the path of the folder containing the extracted program files.
Windows Explorer	From the location where you extracted the program files, double-click SetupVSE.exe.

- 2 In the **McAfee VirusScan Enterprise Setup** dialog box, click **View Readme** to review the release notes for special installation instructions or known issues, then click **Next** to continue.
- 3 In the **McAfee End User License Agreement** dialog box, select and read the product license, then click **Next** to continue.
The license type must match the license type that you purchased. If you don't know which type of license to select, contact the person from whom you purchased the software.
- 4 **Upgrade only.** In the **Previous Version Detected** dialog box, select **Preserve Settings**. See *Preserving settings during product upgrade* for more information.
- 5 In the **Select Setup Type** dialog box, choose the installation type and location.
By default, Setup installs the VirusScan Enterprise program files to <drive>:\Program Files\McAfee\VirusScan Enterprise.

Installation Type	Definition
Typical	<i>(Recommended)</i> Installs the software with all features.
Custom	Installs the software with all or selected features and allows you to customize some settings. Use this to install only selected features, import an AutoUpdate repository list, or specify user interface settings during the installation process.

- 6 In the **Select Access Protection Level** dialog box, choose which access protection rules are enabled by default when the feature is installed.

Access Protection Level	Definition
Standard Protection	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.
Maximum Protection	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 7.
- Typical Installation — Go to Step 11.

- 7 In the **Feature Selection** dialog box, select specific features to install. For each selected feature, you can also select a corresponding action from the list next to the feature name.

Feature	Definition
Console	Installs the VirusScan Console and all of its features (default = Console).
AutoUpdate	Automatically updates DAT files, scanning engine, and other product upgrades.
Lotus Notes Email Scanner	Scans Lotus Notes email.
Microsoft Outlook Email Scanner	Scans Microsoft Outlook email.
On-Access Scanner	Protects your system against potential threats from any source as files are read from or written to disk.
Access Protection	Protects your system access points.
Buffer Overflow Protection	Protects your system against buffer overflow exploits. Not installed on 64-bit systems, nor if the Host Intrusion Prevention agent or the Cisco Security agent is found on a local system.
Script Scan	Scans scripts (Java Script and VBScript) before they are executed.
On-Demand Scan	The scanner that allows you to perform immediate or scheduled on-demand scan tasks.
Right-click Scan	The feature that allows you to perform on-demand right-click scan tasks.

- 8 In the **Install McAfee Products** dialog box, select **Install Alert Manager** to install Alert Manager after the VirusScan Enterprise installation is complete. Click **Browse** to navigate to the Alert Manager location.

- 9 In the **Product Configuration** dialog box, import a repository list and/or choose whether to enable the on-access scanner when the installation is complete.

Method	Definition
Import AutoUpdate repository list	Import the repository list from a specified location, which must be a local drive. NOTE: This option is selected by default only if a repository list is included in the installation file (.msi) or if the command-line property (cmasourcedir) has been set to a new location to point to the Sitelist.xml file.

Method	Definition
	If you do not import a repository list at this time, and one resides in the installation folder, it is 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. See the AutoUpdate section of the VirusScan Enterprise product guide for more information.
Enable On-Access Scanner at the end of installation	<i>(Recommended)</i> Automatically start the on-access scanner upon completion of the installation process.

- 10** In the **Security Configuration** dialog box, specify password security and which system tray options users can access.

NOTE: You can configure these security options after installation. See the VirusScan Enterprise product guide for details.

- 11** In the **Ready to install** dialog box, click **Install** to begin the installation process.
- 12** In the **McAfee VirusScan Enterprise setup has completed successfully** dialog box, choose whether to perform an update task and/or an on-demand scan task when the installation is complete.

Task	Definition
Update Now	Automatically run an update task when the installation is complete.
Run On-Demand Scan	Automatically run a Full Scan when the installation is complete.

If you select both options, the update task runs first, then the on-demand scan task runs.

- 13** When the installation is complete, you are prompted to restart the computer to load the network driver. Distributed File Scanning, Port Blocking, Infection Trace, and Infection Trace Blocking are disabled until the computer is restarted.

Using the command line to install the software

Use this task to install the standalone version of the VirusScan Enterprise software using the command line. This method allows you to customize the installation so that it runs the way you want and installs exactly the product features you want.

Task

- Open the Command Prompt or the Run dialog box and type this command:

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

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

- File name** — The name of the executable file, SetupVSE.exe.

NOTE: You must have local administrator rights to run the SetupVSE.exe executable from the command line.

- Options** — Specify options for installing the software, such as perform a silent installation or record installation progress in a log file. See *Installation scenarios* for the available options.

Each option is preceded by a forward slash (/) and is not case-sensitive.

- **Properties** — Specify how the installation runs. Each property consists of:
 - A name in uppercase letters.
 - An equal (=) sign.
 - One or more values, each separated by a comma. Most property values must appear in uppercase but some, such as True and False, must appear in mixed case.

NOTE: The Microsoft Installer permits properties that determine how your installation runs. For details, see the Microsoft Installer documentation.

Installation scenarios

Use these scenarios to customize your installation.

Scenario	Definition
Silent	<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> <p>q or qn — Silent installation. This installs default settings unless you specify otherwise. For example, the product license default is 1 Year Subscription.</p> <p>qb — Basic user interface. Use qb! to hide the Cancel button.</p> <p>qb+ — 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.</p> <p>qb- — Basic user interface with no modal dialog boxes. Use qb-! or qb!- to hide the Cancel button.</p> <p>qf — Full user interface and any authored FatalError, UserExit, or Exit modal dialog box displayed at the end of the installation.</p> <p>qn+ — No user interface except for a modal dialog box displayed at the end of the installation.</p> <p>qr — Reduced user interface with no modal dialog box displayed at the end of the installation.</p>
Custom Location	<p>Add the installdir 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>
Login Script	<p>Add a Setup command to your login script to install VirusScan Enterprise software when 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>NOTE: To use a login script for this purpose, you must also copy or push the VirusScan Enterprise installation package to a location on the destination computer.</p>

Installation options and properties

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

Command-line installation options

When you run the Setup utility 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	Definition
Console	Installs the VirusScan Console and all of its features (default = Console).
AutoUpdate	Automatically updates DAT files, scanning engine, and other product upgrades.
LotusNotesScan	Scans Lotus Notes email.
EmailScan	Scans Microsoft Outlook email.
OnAccessScanner	Protects your system against potential threats from any source as files are read from or written to disk.
AccessProtection	Protects your system access points.
BufferOverflow	Protects your system against buffer overflow exploits. Not installed on 64-bit systems, nor if the Host Intrusion Prevention agent or the Cisco Security agent is found on a local system.
ScriptScan	Scans scripts (Java Script and VBScript) before they are executed.
OnDemandScanner	The scanner that allows you to perform either immediate or scheduled on-demand scan tasks.
ShellExtensions	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	Definition
REBOOT=F	Forces a restart if one is required.
REBOOT=R	Prevents a restart. NOTE: Use this command to run a silent installation and prevent a system restart: setup.exe REBOOT=R /q
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 is any location and any file name for the log file. This option logs all installer activity including all files copied, all registry keys added, and all .ini file changes.

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

Option	Definition
I	status messages
w	non-fatal warnings
e	all error messages
a	action starts
r	action-specific records
u	user requests

Option	Definition
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:

Properties	Definition
ADDLOCAL	Installs specific features to the local computer.
CMASOURCEDIR	Set the source path for the Sitelist.xml file (default = %temp%\naitemp). The repository list must be located on a local drive and cannot be imported from a mapped or a network drive.
ENABLEONACCESSSCANNER	False = Not valid. True = Enable the on-access scanner when the installation is complete (default). If you do not want to enable the on-access scanner, set the property to "", an empty string. For example, ENABLEONACCESSSCANNER=""
EXTRADATSOURCEDIR	Set the source path for the extra.dat file. During installation, the extra.dat file is copied to the location where the engine files reside.
ICONLOCKDOWN	False = Not valid. True = Do not display any icons. The default is an empty string. To display icons, set the property to "", an empty string. For example, ICONLOCKDOWN=""
INSTALLDIR	Specifies the path of the installation folder. The value consists of the installation path.
LOCKDOWNSHORTCUTS	False = Not valid. True = Do not display any shortcuts under the Start menu. The default is an empty string. To allow the shortcuts to be installed, set the property to "", an empty string. For example: LOCKDOWNSHORTCUTS=""
PRESERVESETTINGS	False = Not valid. True = Preserve settings (default). Preserves settings when upgrading from NetShield [®] , VirusScan, or an earlier version of VirusScan Enterprise. If you do not want to preserve settings, set the property to "", an empty string. For example: PRESERVESETTINGS=""
REBOOT	Restart your computer. You can force the computer to restart if it is required, or prevent it from restarting.
REMOVE	Removes one or more program features. You can specify a feature, or use the value ALL to remove all features. If

Properties	Definition
RUNAUTOUPDATE	<p>you combine this property with the ADDLOCAL property, you can install all but one or two specific features.</p> <p>False = Not valid.</p> <p>True = Run update when the installation is complete (default).</p> <p>Use this command for interactive installations. If you do not want to run an update when the installation is complete, set the property to "", an empty string. For example: RUNAUTOUPDATE=""</p>
RUNAUTOUPDATESILENTLY	<p>False = Not valid.</p> <p>True = Run a silent update when the installation is complete.</p> <p>The default is an empty string. Use this command when performing silent updates. If you do not want to run a silent update when the installation is complete, set the property to "", an empty string. For example: RUNAUTOUPDATESILENTLY=""</p>
RUNONDEMANDSCAN	<p>False = Not valid.</p> <p>True = Run a scan of all local drives when the installation is complete (default).</p> <p>Use this command when performing interactive installations. If you do not want to run the on-demand scanner when the installation is complete, set the property to "", an empty string. For example: RUNONDEMANDSCAN=""</p>
RUNONDEMANDSCANSILENTLY	<p>False = Not valid.</p> <p>True = Run an on-demand scan silently when the installation is complete.</p> <p>The default is an empty string. Use this command when performing silent installations. If you do not want to run a silent on-demand scan when the installation is complete, set the property to "", an empty string. For example: RUNONDEMANDSCANSILENTLY=""</p>

Command-line examples

To do this...	Run this command...
Silently install all features	setup.exe ADDLOCAL=ALL /q
Install more than one feature	Use a comma to separate more than one feature. For example, to install the on-access scanner and Script Scan, run setup.exe ADDLOCAL=OnAccessScanner,ScriptScan /q
Install all features except one	setup.exe ADDLOCAL=ALL REMOVE=ScriptScan /q
Silently remove all features	setup.exe REMOVE=ALL /q
Install features using a loud installation	Omit the /q option in any of the command-line examples shown here.

Post-Installation Tasks

Complete this task after installing the VirusScan Enterprise program files. Refer to *Location of installed files* to find where the VirusScan Enterprise program files were installed.

Contents

- ▶ [Testing your installation](#)
- ▶ [Location of installed files](#)

Testing your installation

Use this task to test whether VirusScan Enterprise is installed correctly and can properly scan for potentially unwanted programs. This test was developed by the European Institute for Computer Anti-Virus Research (EICAR).

Task

- 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.

NOTE: 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.

Location of installed files

During installation, product and system files are installed in various locations.

Product files

Product files are installed in the installation folder, which is determined during installation. The default location is

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

VirusScan Enterprise folder

AdsLokUU.dll	Mcshield.exe	mfevtpa.dll	pireg.exe
BBCpl.dll	McShieldPerfData.dll	mfevtps.exe	quarcpl.dll
condl.dll	McShieldPerfData.h	midutil.dll	readme.html
consl.dll	McShieldPerfData.ini	mytilus3.dll	restartvse.exe
coptcpl.dll	McShieldPerfData.reg	mytilus3_server.dll	scan32.exe
csscan.exe	mcupdate.exe	mytilus3_server_process.exe	scncfg32.exe
EmAbout.dll	Mcvssnmp.dll	mytilus3_worker.dll	scriptff.dll
EmCfgCpl.dll	MERTool	naevent.dll	scriptsn.dll
EmHelp.dll	mfeann.exe	naiann.dll	shcfg32.exe
EngineServer.exe	mfeapfa.dll	naievent.dll	shext.dll
EntvUtil.exe	mfeapfk.sys	nailite.dll	shstat.dll
FtCfg.dll	mfeavfa.dll	NCDaemon.exe	shstat.exe
Ftl.dll	mfeavfk.sys	NCExtMgr.dll	shutil.dll
graphics.dll	mfebopa.dll	NCInstall.exe	vscan.bof
license.bin	mfebopk.sys	NCMenu.dll	VsEvtUI.dll
lockdown.dll	mfehida.dll	NCScan.dll	vsodscpl.dll
logparser.exe	mfehidin.exe	NCTrace.dll	vsplugin.dll
mcadmin.exe	mfehidk.sys	nvpcpl.dll	vstskmgr.exe
McAVDetect.dll	mferkda.dll	OASCpl.dll	vsupdate.dll
mcavscv.dll	mferkdet.sys	otlkScan.dll	vsupdcpl.dll
mcconsol.exe	mfetdik.sys	otlkUI.dll	wmain.dll

Resources folder

The Resources folder name depends on the language being installed. For example, the default location for the English folder is

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

mcshield.dll strings.bin

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. The default location is

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

avvclean.dat	avvnames.dat	avvscan.dat	config.dat
license.dat	mcscan32.dll	messages.dat	signlic.txt

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. 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. The default location is

<drive>:\Windows\System32\drivers

msvcrt.dll

psapi.dll

Modifying, Repairing and Removing the Software

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

Contents

- ▶ [Modifying installed features](#)
- ▶ [Reinstalling or repairing program files](#)
- ▶ [Removing program files](#)

Modifying installed features

Use the **Program Maintenance** feature to change which VirusScan Enterprise features are installed.

Using the Setup utility to modify installed features

Use this task to change which features are installed, using the Setup utility.

Task

- 1 Start the Setup utility. See *Using the Setup utility to install program files* for details.
- 2 In the **Program Maintenance** dialog box, select **Modify**.
- 3 In the **Feature Selection** dialog box, select specific features for installation.
NOTE: For each selected feature, you can also select a corresponding action from the list next to the feature name.
- 4 In the **Ready to install** dialog box, click **Install** to start the installation process.
- 5 In the **McAfee VirusScan Enterprise setup has completed successfully** dialog box, choose whether to perform an update task and/or an on-demand scan when the installation is complete and to finish the installation.
NOTE: If you select both options, the update task runs first, then the on-demand scan task runs.

Using the command line to modify installed features

Use this task to change which features are installed, using the command line.

Task

- 1 Open the Windows command-line component. See *Using the command line to install the software* for more information.
- 2 Install or remove features individually using a comma-separated list, or you can specify the all property.

Feature	Command line
Add a feature	setup.exe ADDLOCAL=OnAccessScanner,ScriptScan /q
Remove a feature	setup.exe REMOVE=ScriptScan,ShellExtensions/q
Install features using a loud installation	Omit the /q option in any of the command-line examples shown here.

Reinstalling or repairing program files

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

Using the Setup utility to reinstall or repair program files

Use this task to reinstall or repair program files, using the Setup utility.

Task

- 1 Start the Setup utility. See *Using the Setup utility to install program files* for details.
- 2 In the **Program Maintenance** dialog box, select **Repair**.
- 3 In the **Reinstall or Repair the Product** dialog box, choose whether to reinstall or repair VirusScan Enterprise program files, and/or to rewrite registry keys as needed

Method	Definition
Reinstall McAfee VirusScan Enterprise	Reinstalls the VirusScan Enterprise program files, registry keys, and shortcuts.
Detect and repair missing or corrupt files	Finds missing or corrupt program files and repairs them. NOTE: 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. If you manually remove or rename any of the program files, the repair feature might fail. See <i>Troubleshooting</i> in the VirusScan Enterprise product guide for detailed instructions about repairing files after they have been removed or renamed.
Rewrite registry keys	Rewrites registry keys as necessary during the repair process (available only for Detect and repair missing or corrupt files).

- 4 In the **McAfee VirusScan Enterprise setup has completed successfully** dialog box, choose whether to perform an update task and/or an on-demand scan when the installation is complete.

NOTE: If you select both options, the update task runs first, then the on-demand scan task runs.

Using the command line to reinstall or repair program files

Use this task to change which features are installed, using the command line.

Task

- 1 Open the Windows command-line component. See *Using the command line to install the software* for more information.
- 2 Install or remove features individually using a comma-separated list, or you can specify the ALL property.

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

Removing program files

Use these tasks to remove the VirusScan Enterprise program files.

NOTE: McAfee strongly recommends that you restart your computer after you remove files and before you reinstall the software.

When you remove files using Setup or the command line, some files or stopped services might not be removed. For example, if you remove VirusScan Enterprise 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.

Using the Setup utility to remove program files

Use this task to remove program files, using the Setup utility.

Task

- 1 Start the Setup utility. See *Using the Setup utility to install program files* for details.

- 2 In the **Program Maintenance** dialog box, select **Remove**.
- 3 Select **Remove** again, then click **Finish**.

NOTE: After the program files are removed, you might be prompted to remove remaining files or folders. These are files or folders that 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.

- 4 (*Recommended*) Restart your computer before reinstalling the software.

Using the command line to remove program files

Use this task to remove program files, using the command line.

Task

- 1 Type this syntax at the command prompt:
<X>:\SETUP.EXE /x
where, <X>: represents the path of the location of the extracted program files.
- 2 (*Recommended*) Restart your computer before reinstalling the software.

Using the Add/Remove Programs utility to remove program files

Use this task to remove program files, using the Add/Remove Programs utility.

Task

- 1 Click **Start**, then select **Settings | Control Panel | Add/Remove Programs**.
- 2 Select the VirusScan Enterprise program from the list of installed programs, then click **Remove**.
- 3 (*Recommended*) Restart your computer before reinstalling the software.

Index

A

- Access Protection feature
 - installing from the command line [13](#)
 - installing with Setup [11](#)
- access protection, default levels of protection [10](#)
- Add/Remove Programs, removing program files [23](#)
- administrator rights
 - silent installation [13](#)
- Alert Manager, installing [11](#)
- AutoUpdate feature
 - installing from the command line [13](#)
 - installing with Setup [11](#)

B

- Buffer Overflow Protection
 - installing with Setup [11](#)
- Buffer Overflow Protection
 - installing from the command line [13](#)

C

- command line
 - command examples [16](#)
 - installation options [13](#)
 - modifying installed features [20](#)
 - progress options, installation [14](#)
 - properties, installation [15](#)
 - removing program files [23](#)
 - restart options [14](#)
 - scenarios for installation [13](#)
 - selecting features, installation [13](#)
- Console feature
 - installing from the command line [13](#)
 - installing with Setup [11](#)
- Custom installation, selecting a type [10](#)

D

- documentation for product, where to find [4](#)

E

- EICAR test for your installation [17](#)
- ePolicy Orchestrator
 - finding product documentation [4](#)

F

- features
 - modifying [20](#)
 - selecting and installing [11](#), [13](#)

I

- installation
 - Alert Manager [11](#)

installation (*continued*)

- documentation, where to find [4](#)
- license type, selecting [10](#)
- loading network driver [12](#)
- post-installation tasks [17](#)
- preserving settings from a previous version [7](#), [10](#)
- selecting features [11](#), [13](#)
- Setup utility, installing with [10](#)
- testing [17](#)
- Typical or Custom setup type, selecting [10](#)
- upgrading an evaluation version [7](#)
- user interface security [12](#)
- installed features, modifying [20](#)

K

- KnowledgeBase, finding product documentation [4](#)

L

- license
 - agreement, selecting correct license type [10](#)
- login script, command-line options [13](#)
- LotusNotes Email Scanner
 - installing from the command line [13](#)
 - installing with Setup [11](#)

M

- Maximum protection level, selecting [11](#)
- Microsoft Outlook Email Scanner
 - installing from the command line [13](#)
 - installing with Setup [11](#)

N

- network driver, restarting computer to load [12](#)

O

- On-Access Scanner
 - installing from the command line [13](#)
 - installing with Setup [11](#)
- On-Demand Scan feature
 - installing from the command line [13](#)
 - installing with Setup [11](#)

P

- post-installation tasks [17](#)
- preserve settings
 - pre-installation information [7](#)
- Program Maintenance feature
 - modifying installed features [20](#)
 - reinstalling or repairing [21](#)

R

- reinstallation or repair of program files
 - Setup utility [21](#)
- release notes
 - viewing [10](#)
- removal of program files
 - Add/Remove Programs [23](#)
 - command line [23](#)
 - Setup utility [22](#)
- repository list, importing [11](#)
- restart
 - after installation [12](#)
 - after removing program files [22](#), [23](#)
 - command-line options [14](#)
- Right-click Scan feature
 - installing from the command line [13](#)
 - installing with Setup [11](#)

S

- scanners, selecting features [11](#), [13](#)
- Script Scan feature
 - installing from the command line [13](#)
 - installing with Setup [11](#)
- security, user interface options [12](#)
- settings, preserving from previous version [7](#), [10](#)
- setup
 - phase, finding documentation for [4](#)

- setup (*continued*)
 - type, choosing Typical or Custom [10](#)
- Setup utility
 - installing the product [10](#)
 - modifying installed features [20](#)
 - reinstalling or repairing program files [21](#)
 - removing program files [22](#)
- silent installation
 - and reboot options [14](#)
 - command-line examples [16](#)
 - command-line options [13](#)
- Sitelist.xml, importing a repository list [11](#)
- Standard protection level, selecting [11](#)

T

- tasks
 - installation, Setup utility [10](#)
 - modifying installed features [20](#)
 - post-installation, running a test scan [17](#)
 - reinstalling or repairing program files [21](#)
 - removing program files [22](#), [23](#)
- test file, verifying the installation [17](#)
- Typical installation, selecting a type [10](#)

U

- user interface, selecting security options [12](#), [13](#)

