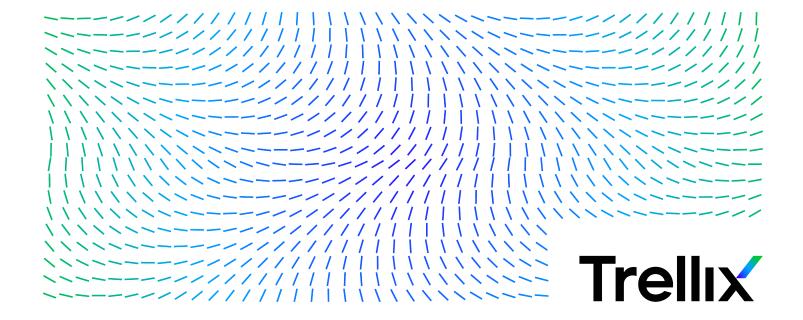
McAfee Application and Change Control 8.3.x - Windows Installation Guide



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Installation overview

You can install McAfee® Application Control and McAfee® Change Control in a managed McAfee® ePolicy Orchestrator® (McAfee® ePO™) environment or an unmanaged environment.

McAfee ePO is a management tool that installs software and deploys policies on the managed endpoints. It also allows you to monitor client activities, create reports, and store and distribute content and software updates.

Which type of installation do you need?

Determine which type of installation you need to perform: a first-time installation in a new environment or an upgrade to a later version of Application Control and Change Control.

When you install or upgrade the software using McAfee ePO, you can:

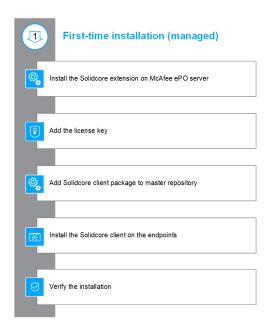
- Install it manually.
- · Install it using the agent deployment task.

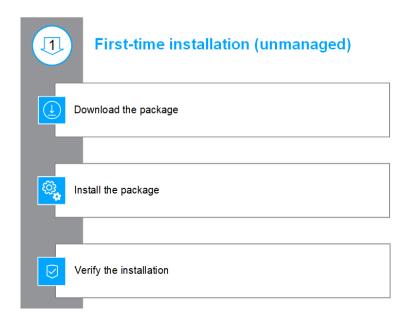
When you install the software in an unmanaged system, you can:

- Install it in interactive mode An installation wizard guides you through the steps needed to configure and install the software.
- · Install it in silent mode Installation is non-interactive with no progress bar or displayed messages. Recommended for medium-scale and large-scale deployments.

First-time installation workflow

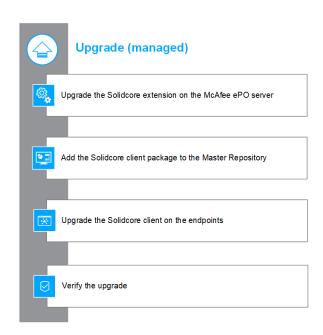
You can install Application Control and Change Control in a managed McAfee ePO environment or an unmanaged environment.

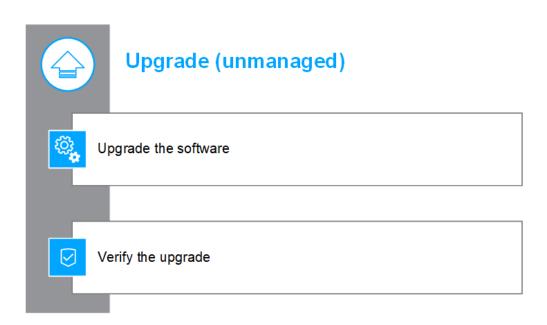




Upgrade installation workflow

You can upgrade Application Control and Change Control in a managed McAfee ePO environment or an unmanaged environment.





System requirements

Make sure that your system environment meets all requirements and that you have administrator rights.

(i) Important

To review system requirements for this release, see KB87944.

Before installing or upgrading, verify your environment setup.

Managed

- McAfee ePO server and database are installed and configured.
- McAfee® Agent is installed on each endpoint where you want to install the software.
- Your database size is adequate (see KB72753).
- Your platform, environment, and operating system are supported (see KB87944).

Unmanaged

• Your platform, environment, and operating system are supported (see KB87944).

Install software for the first time Install the software for McAfee ePO management Install the extension manually on McAfee ePO

The Solidcore extension integrates with the McAfee ePO console and provides Change Control and Application Control features.

Task

- 1. Download the Solidcore extension package from the McAfee Downloads site.
- 2. On the McAfee ePO console, select **Menu** → **Software** → **Extensions** to open the **Extensions** page.
- 3. Click Install Extension.
- 4. Browse to and select the Solidcore_epo_extn_<version>.<build>.zip file, then click **OK**.



Solidcore extension version 8.x can be used with Solidcore client version 6.x or later.

- 5. Verify the information about the **Install Extension** page, then click **OK**.
- 6. Verify that the Solidcore product name appears in the **Extensions** list.



If the product name is not listed or you encounter errors during installation, review the Orion.log file in the <McAfee ePO install dir>\Server\Logs directory to analyze the cause.

Install the extension with Software Catalog on McAfee ePO

The Solidcore extension integrates with the McAfee ePO console and provides Change Control and Application Control features.

Task

- 1. On the McAfee ePO console, select **Menu** → **Software** → **Software Catalog**.
- 2. From the **Products** category list, select **Endpoint Security**.
- 3. Select McAfee Application Control 8.x.x or McAfee Change Control 8.x.x
- 4. Click Check In for the ePO Management Extension 8.x.x.
- 5. On the Check In page, select I accept the terms in the license agreement and click Check In.

Add the software license key

Licenses determine the product features that are enabled in your system. Any or all features can be enabled and used at the same time.

Installing the Solidcore extension provides a default evaluation license for **Integrity Control** lasting 90 days. You can extend this evaluation license for another 90 days or add a full license.

Task

- 1. On the McAfee ePO console, select **Menu** → **Configuration** → **Server Settings** to open the **Setting Categories** page.
- 2. Select **Solidcore**, then click **Edit** to open the **Edit Solidcore** page.
- 3. Enter the license keys, then click **Save**.



For information about your license key, see KB90666.

Check in the Solidcore client package to Main Repository

The Solidcore client provides change monitoring, change prevention, and whitelisting features. For all supported platforms, the Solidcore client works on both physical and virtual machines (VM).

Task

- 1. On the McAfee ePO console, select **Menu** → **Software** → **Main Repository**.
- 2. From the Packages in Main Repository page, click Check In Package.
- 3. Set the package type to **Product or Update (.zip)**.
- 4. Browse to and select the package (.zip) file and click **Next** to open the **Package Options** page.
- 5. Check and confirm the information.
 - Package info Verify the package details.
 - **Branch** Select the branch you want. Set to **Current** for new products.
 - Options (Optional) Select Move the existing package to the Previous branch.
 - Package signing Indicates if the package is signed by McAfee or if it is a third-party package.
 - Conflicting Packages that will be removed Displays a list of any packages to be deleted.
- 6. Click **Save** to add the package.

Results

The new package appears in **Packages in Main Repository** list.

Install the Solidcore client with Software Catalog on McAfee **ePO**

The Solidcore client provides change monitoring, change prevention, and whitelisting features. For all supported platforms, the Solidcore client works well on both physical and virtual machines (VM).

Task

- 1. On the McAfee ePO console, select **Menu** → **Software** → **Software Catalog**.
- 2. From the **Products** category list, select **Endpoint Security**.
- 3. Select McAfee Application Control 8.x.x or McAfee Change Control 8.x.x.
- 4. Click Check In for the Solidcore Client for Windows 8.x.x package.
- 5. On the Check In page, select I accept the terms in the license agreement and click Check In.

Deploy the Solidcore client to the endpoints

The Solidcore client provides change monitoring, change prevention, and whitelisting features. For all supported platforms, the Solidcore client works on both physical and virtual machines (VM).

- 1. On the McAfee ePO console, select **Menu** → **Systems** → **System Tree**.
- 2. Apply the client task to a group or an endpoint:
 - Group select a group in the System Tree and click the Assigned Client Tasks tab.
 - Endpoint select the endpoint on the Systems page and click Actions → Agent → Edit Tasks on a Single System.
- 3. Click Actions → New Client Task Assignment to open the Client Task Assignment Builder page.
- 4. Select the McAfee Agent product and Product Deployment task type, then click Create New Task.
 - a. Specify the task name and add any descriptive information.
 - b. Select the target platform.
 - For example, when installing the Solidcore client package on the Windows operating system, select Windows as the target platform.
- 5. Specify the component and action.
 - Select the appropriate package from the **Products and components** list.
 - Select the **Install** action.
 - Select the language of the package.
 - · Specify the branch where to add the package.
- 6. Click **Save**, then specify scheduling details.
- 7. Review and verify the task details, then click **Save**.
- 8. (Optional) Click Wake Up Agents to send your client task to the endpoint immediately.

Verify the Solidcore client installation

You can verify that the software is installed successfully on an endpoint.

Task

- 1. On the McAfee ePO console, select $Menu \rightarrow Systems \rightarrow System$ Tree.
- 2. Select a group or endpoint from the list to view its details in the **Systems** tab.
- 3. Review logs from the McAfee ePO console.
 - a. Select a system on the Systems page.
 - b. Select **Actions** → **Agent** → **Show Agent Log** to view the agent log for the endpoint.
 - c. Check the log to verify that the software was successfully installed on the endpoint.
- 4. Review the properties for the system.
 - a. Click Wake Up Agents to fetch properties immediately.
 - Typically, information is exchanged between the agent and server after an agent-server communication interval (ASCI). The default ASCI value is 60 minutes. You can send an agent wake-up call to make sure immediate communication and data exchange between the server and the agent, without waiting for the ASCI to expire.
 - b. Click a system on the **Systems** page to view its details.
 - c. Click the **Products** tab and review the **Solidcore** version. Click the row to review additional information, including the product version and installation path.
 - If the **Solidcore** information is not listed, check the log files on the endpoint to verify that the software was successfully installed. If the Solidcore client installation fails, the log files provide information about the cause for failure.

Enable the Solidcore client

The Solidcore client must be in Enabled mode to be activated.

- 1. On the McAfee ePO console, select **Menu** \rightarrow **Systems** \rightarrow **System Tree**.
- 2. Apply the client task to a group or an endpoint:
 - **Group** Select a group in the **System Tree** and click the **Assigned Client Tasks** tab.
 - Endpoint Select the endpoint on the Systems page and click Actions → Agent → Edit Tasks on a Single System.
- 3. Click Actions → New Client Task Assignment to open the Client Task Assignment Builder page.
 - a. Select the **Solidcore 8.x.x** product and **SC: Enable** task type, then click **Create New Task**.
 - b. On the **Client Task Catalog** page, specify the task name and add any descriptive information.
 - c. Select the platform, the subplatform, and indicate whether to enable Change Control, Application Control, or both.
- 4. Based on the sub-platform, perform these actions:

- Windows NT/2000 Select Reboot endpoint to restart the endpoints when solidification is complete, which enables the software.
- All except NT/2000
 - Select the initial scan priority of the thread that creates the whitelist on the endpoints:
 - □ **Low** Minimal performance impact
 - □ **High** Faster results
 - ☐ Select **MP disabled** and **SAU disabled** to set the initial feature configuration.



Disabling SAU and MP features is permanent. You can't enable them again after installation. Any change to MP or SAU status through a policy is ignored by the endpoint.

- □ Select an option for activation:
 - □ Limited Feature Activation Endpoints aren't restarted and limited features of Application Control are activated. Memory Protection and Script As Updater (SAU) features are available only after the endpoint is restarted.
 - □ Full Feature Activation Endpoints are restarted, whitelist created, and all features including Memory Protection are active.
- (Optional) Select Start Inventory Mode to place the endpoints in Inventory mode.
- (Optional) Select Start Observe Mode to place the endpoints in Observe mode.
- ☐ (Optional) Select **Pull Inventory** to manage the inventory with McAfee ePO.

5 minutes before the endpoint is restarted, a message is displayed at the endpoint to allow the user to save important work and data.

- 5. Click **Save**, then specify scheduling details.
- 6. Review and verify the task details, then click **Save**.
- 7. (Optional) Click **Wake Up Agents** to send your client task to the endpoint immediately.
- 8. Verify that the software is enabled.
 - a. Click Wake Up Agents to fetch properties immediately.
 - b. Click a system on the **Systems** page. The details for the selected system are displayed.
 - c. Select the **Products** tab and review the **Solidcore** version. Click the row to review the license status.

Install the software in an unmanaged environment

Download the Solidcore client package

The Solidcore client is the software component that provides change monitoring, change prevention, and whitelisting features.

Task

1. Download the package from the McAfee Downloads site.

The available Solidcore client package for Windows is SOLIDCOR<version>-<build>_WIN.zip.



In the file name, version and duild represent the version and build number associated with the product.

- 2. Save the package file to an accessible location.
- 3. Open the package file.

The Solidcore client package file includes the installers for all operating systems.

4. Extract the installer.

For the Windows operating system, different installers are available based on the target architecture and distribution. Each installer file name uses the setup-win-<os>-<arch>-<rel>-
-
build>-exe syntax. In the syntax:

<arch></arch>	 x86 for 32-bit architecture amd64 for AMD 64-bit architecture
<os></os>	Indicates the operating system to which the installer applies.

Install the software in interactive mode on an unmanaged system

In interactive mode, the installer starts a wizard that guides you through the installation process.

- 1. Log on to the system with administrator rights.
- 2. Navigate to the directory with the installer file and start the installer.
 - For Windows 2008, Windows 2008 R2, Windows 7 (with UAC enabled), Windows 8.1, Windows 2012, or Windows 10, right-click the installer file in Windows Explorer and select **Run as administrator**.
 - For other Windows platforms, double-click the installer file in Windows Explorer.
- 3. On the **Welcome** page, click **Next** to display the **License Agreement** page.
- 4. Select I accept the terms in the license agreement to accept the terms of the license agreement.
- 5. Click **Next** to display the **Customer Information** page.
 - a. Enter the user and company information in the User Name: and Organization: fields respectively.
 - b. Enter the license key in the Serial Number: field or select Install without license key.
- 6. Click **Next** to open the **Destination Folder** page.

- a. Specify the installation folder.
 - By default, the software files are placed in the <system drive>:\Program Files\McAfee\Solidcore folder.
- b. (Optional) Click **Browse** to specify a batch file (with commands) or an executable file to use in post-installation configuration.

The specified file is started automatically after the software is installed in the system.

- 7. Click **Next** to open the **Ready to Install the Program** page.
- 8. Click **Install** to begin the installation.
- 9. Click **Finish** to complete the installation.

Install the software in silent mode on an unmanaged system

When you install in silent mode, no messages are displayed. Instead, a log file captures installation information. You can review the log file and determine the installation results.

Task

- 1. Log on to the system with administrator rights.
- 2. Verify that the installer is available.
- 3. Open a command window and run one of these commands.

```
<installer-file> /s /v" /qn SERIALNUMBER=xxxx-xxxx-xxxx-xxxx"
<installer-file> /s /v" /qn UNLICVER=1"
```

Notice the double quotes (") after /v and space between /s and /v. There is no space between /v and double quotes ("). In addition to the SERIALNUMBER OF UNLIQUER arguments, you can optionally specify one or more of these arguments with the command.

Argument	Description
SERIALNUMBER	Specify the license key for the installation.
	<pre><installer-file> /s /v" /qn SERIALNUMBER=xxxx-xxxx-xxxx-xxxx"</installer-file></pre>
UNLICVER	Install the software without specifying the license key. Possible values for this argument are 0 and 1. A value of 1 indicates that you are installing the software without using the license key. <installer-file> /s /v" /qn UNLICVER=1"</installer-file>
SHORTCUT	Create a desktop shortcut to access the command-line tool. Possible values for this argument are 0 and 1. Specify a value of 1 to create the shortcut and 0 to skip the shortcut creation.

Argument	Description
	<installer-file> /s /v" /qn UNLICVER=1 SHORTCUT=1"</installer-file>
POSTINSTALL	Specify a file to perform post-installation configuration on the system. To specify file paths that contain spaces, enclose the paths in double quotes ("). <installer-file> /s /v" /qn UNLICVER=1 POSTINSTALL=\"C:\\My Dir\\batch.exe\\""</installer-file>
INSTALLDIR	Install the software at a user-specified location. With this argument, you can specify a folder path of up to 240 characters (total string length including special characters). <installer-file> /s /v" /qn SERIALNUMBER=xxxx-xxxx-xxxx-xxxx INSTALLDIR=\"C:\\My Dir\\McAfee\\Solidcore\""</installer-file>
/1+*v	Change the default location of the Solidcore_Installer.log file. By default, this file is placed in the SYSTEMROOT directory. <installer-file> /s /v" /qn UNLICVER=1 /l+*v \"C:\\Solidcore_Installer.log\""</installer-file>

Verify the installation

You can verify if the software was installed successfully on an endpoint.

Task

Check if these components exist:

- An entry for McAfee Solidifier is added to the **Programs** menu.
- The swin.sys file is added to the %SystemRoot%\Windows\System32\drivers location.
- The McAfee Solidifier Service is added under Windows services.
- Product-specific registry settings are created:
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\swin
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\scsrvc
- Additional files are placed in the installation directory. These files are internal to the product and should not be changed.
- · Solidcore_Installer.log and solidcore_setup.log files are created under %SYSTEMROOT%. You can view the log file contents to verify if errors occurred during the installation.
- MPT installer log files: mac_mpt.etl and mac_mpt.log are created under %SYSTEMROOT%.

Enable the software in an unmanaged environment

Add the license and place the software in Enabled mode.

Task

- 1. Add the software license, then restart the service:
 - a. sadmin license add <license_key>
 - b. net stop scsrvc
 - C. net start scsrvc
- 2. For Application Control, create a whitelist of authorized executable files, then verify its status:
 - a. sadmin so
 - b. sadmin status

Make sure that the status of drives or volumes is Solidified.

- 3. Enable the software, then restart the service:
 - a. sadmin enable
 - b. net stop scsrvc
 - C. net start scsrvc
- 4. Verify that the software is in Enabled mode:

sadmin status

Upgrade to a new software version Upgrade the software with McAfee ePO Upgrade Solidcore extension manually

To access the new features in a release, you must upgrade the Solidcore extension.

Task

- 1. Stop the McAfee ePO Event Parser service.
 - a. Select Control Panel \rightarrow Administrative Tools \rightarrow Services.
 - b. Right-click the McAfee ePolicy Orchestrator <version> Event Parser service and click Stop.
- 2. Back up these items:
 - · McAfee ePO database

McAfee ePO database includes policies, policy assignments, and rule groups.

- <McAfee ePO install dir>\Server\extensions\installed\Solidcore directory
- <McAfee ePO install dir>\Server\conf\Catalina\localhost\SOLIDCORE META.xml file
- 3. On the McAfee ePO console, select **Menu** \rightarrow **Software** \rightarrow **Extensions** to open the **Extensions** page.
- 4. Click Install Extension, browse to, and select the Solidcore_epo_extn_<ver>>.<build>.zip file, then click OK.
- 5. Verify the information about the **Install Extension** page, then click **OK**.

What to do next

When you upgrade the solidcore extension, don't make any changes to the existing rules and configuration until the **Solidcore: Migration** server task is complete. Also, the migration task can take longer than usual. Depending on the volume of inventory data in your environment, the task can take a few hours or a day to complete. See KB84651 for details.

Upgrade Solidcore extension with Software Catalog

Upgrade the Solidcore extension to access the new features in a release. You can also upgrade the Solidcore extension using Software Catalog.

- 1. Stop the McAfee ePO Event Parser service.
 - a. Select Control Panel \rightarrow Administrative Tools \rightarrow Services.
 - b. Right-click the McAfee ePolicy Orchestrator <version> Event Parser service and click Stop.

- 2. Back up these items:
 - · McAfee ePO database.

McAfee ePO database includes policies, policies assignments, and rule groups.

- <McAfee ePO install dir>\Server\extensions\installed\Solidcore directory.
- <McAfee ePO install dir>\Server\conf\Catalina\localhost\SOLIDCORE_META.xml file.
- 3. On the McAfee ePO console, select **Menu** → **Software** → **Software Catalog**.
- 4. From the **Products** category list, select **Endpoint Security**.
- 5. Select McAfee Application Control 8.x.x or McAfee Change Control 8.x.x.
- 6. Click Update for the ePO Management Extension 8.x.x.
- 7. On the **Update** page, click **Update**.

Verify the Solidcore extension upgrade

Check if the Solidcore extension was upgraded successfully.

Task

Check if the Solidcore product name appears in the **Extensions** list.
 If the product name is not listed or you encounter errors during upgrade, review the Orion.log file in the <McAfee ePO install dir>\Server\Logs directory to analyze the cause of the failure.



After you upgrade the Solidcore extension, the domain NetBIOS Name is not available for existing users imported directly from an Active Directory to rule groups and policies. To make sure the domain NetBIOS Name is available for such users, delete and reimport users from the Active Directory. After the upgrade, any users that you import from the Active Directory and add to new or existing rule groups and policies automatically include the domain NetBIOS Name.

- 2. Start the McAfee ePO Event Parser service.
 - a. Select Control Panel \rightarrow Administrative Tools \rightarrow Services.
 - b. Right-click the McAfee ePolicy Orchestrator <version> Event Parser service and click Start.
- 3. Verify that migration of data was successful.
 - a. On the McAfee ePO console, select $Menu \rightarrow Automation \rightarrow Server Task Log$.
 - b. Check if the **Solidcore: Migration** server task is complete.This server task completes upgrade-related activities. If the task is in progress, wait until the task completes. Make sure you do not edit any existing settings while this task is in progress.
 - c. If the migration fails, review the Server Task Log, resolve any issues, and run the **Solidcore: Migration** server task manually to complete the migration.
- 4. (Optional) Run the **Rule Group Sanity Check** server task from the McAfee ePO console to fix the inconsistencies in the rule groups.

This task updates and corrects the Solidcore Rule Group for errors in installers and certificates. This task also issues warnings for trusted groups-related issues.

- a. On the McAfee ePO console, select **Menu** \rightarrow **Automation** \rightarrow **Server Tasks**.
- b. Click New Taskto open the Server Task Builder wizard.
- c. Type the task name and click **Next**.
- d. Select Solidcore: Rule Group Sanity Check from the Actions drop-down list, then click Next.
- e. Specify the schedule for the task, then click **Next** to open the **Summary** page.
- f. Review the task summary and click **Save**.
- g. Review the logs generated by the server task (on the Server Task Log page) to view the warnings, if any.

Add the Solidcore client package to the repository manually

Before you can upgrade, you must add the Solidcore client package to the McAfee ePO Main Repository.

Before you begin

To review system requirements, see KB87944.

Task

- 1. On the McAfee ePO console, select **Menu** → **Software** → **Main Repository** to open the **Packages in Main Repository** page.
- 2. Click Check In Package.
- 3. Set the package type to **Product or Update (.zip)**.
- 4. Browse to and select the package (.zip) file, then click **Next** to open the **Package Options** page.
- 5. Check and confirm the information.
 - Package info Verify the package details.
 - **Branch** Select the branch you want. Set to **Current** for new products.
 - Options (Optional) Select Move the existing package to the Previous branch.
 - Package signing Indicates if the package is signed by McAfee or if it is a third-party package.
 - Conflicting Packages that will be removed Displays a list of any packages to be deleted.
- 6. Click **Save** to check in the package.

Results

The new package appears in the **Packages in Main Repository** list.

Add the Solidcore client package to the repository with Software Catalog

Before you can upgrade, you must add the Solidcore client package to the McAfee ePO repository. You can add it automatically using Software Catalog.

Before you begin

To review system requirements, see KB87944.

Task

- 1. On the McAfee ePO console, select **Menu** → **Software** → **Software Catalog**.
- 2. From the **Products** category list, select **Endpoint Security**, then select one of the below products:
 - McAfee Application Control 8.x.x
 - McAfee Change Control 8.x.x
- Select the package you want to install.
 For McAfee ePO 5.9 or earlier, select the build you want to install under Components. Verify the build number under Available Version and Additional Check In Details.
- 4. Click **Update** for the **Solidcore Client for Windows 8.x.x** package.
- 5. On the **Update** page, click **Update**.

Upgrade the Solidcore client on the endpoints

You must upgrade the Solidcore client on the endpoints to access new features available in the recent version.

- 1. On the McAfee ePO console, select $Menu \rightarrow Systems \rightarrow System$ Tree.
- 2. Apply the client task to a group or an endpoint:
 - **Group** Select a group in the **System Tree** and click the **Assigned Client Tasks** tab.
 - Endpoint Select the endpoint on the Systems page and click Actions → Agent → Edit Tasks on a Single System.
- 3. Click Actions → New Client Task Assignment to open the Client Task Assignment Builder page.
- 4. Select the **McAfee Agent** product, **Product Deployment** task type, then click **Create New Task** to open the **Client Task Catalog** page.
- 5. Specify the task name, add any descriptive information, select the target platform, then specify the component and action:
 - Select the appropriate package from the **Products and components** list.
 - Select **Install** for the action.
 - Select the language of the package.
 - Select the branch you want. Set to **Current** for new products.
- 6. Click **Save**, then specify scheduling details.
- 7. Review and verify the task details, then click **Save**.

8. Restart the endpoints.

Verify the Solidcore client upgrade

Once you upgrade the Solidcore client, you can check if it was upgraded successfully on an endpoint.

Task

- 1. On the McAfee ePO console, select $Menu \rightarrow Systems \rightarrow System$ Tree.
- 2. Select a group or endpoint from the list to view its details in the **Systems** tab.
- 3. Review logs from the McAfee ePO console.
 - a. Select an endpoint on the **Systems** page.
 - b. Select **Actions** \rightarrow **Agent** \rightarrow **Show Agent Log** to view the agent log for the endpoint.
 - c. Check the log to verify that the software was successfully upgraded on the endpoint.
- 4. Review the properties for the endpoint.
 - a. Click Wake Up Agents to fetch properties immediately.
 - b. Click an endpoint on the **Systems** page to view its details.
 - c. Select the **Products** tab and review the **Solidcore** version. Click the row to review additional information, including the product version and installation path.

If the **Solidcore** information is not listed or is incorrect, check the log files on the endpoint to verify that the software was successfully upgraded. If the Solidcore client upgrade fails, the log files provide information about the cause for failure.

Upgrade the software in an unmanaged environment

Upgrade in interactive mode

You can upgrade the software in interactive mode on a Windows system.

Task

- 1. Log on to the system with administrator rights.
- 2. Navigate to the directory with the installer file.
- 3. Switch to Update mode.

> sadmin begin-update



If your system is in Enabled or Disabled mode, you can upgrade in the current mode. In Enabled mode, you can upgrade the software on all supported Windows platforms. Before using a software distribution tool to upgrade in Enabled mode, assign updater rights to all relevant binary files. To assign updater rights to a file, use the updaters add

sinary files command.

- 4. Start the installer.
 - For Windows 2008, Windows 2008 R2, Windows 7 (with UAC enabled), Windows 8.1 or Windows 2012, right-click the installer file in Windows Explorer and select **Run as administrator**.
 - For other Windows platforms, double-click the installer file in Windows Explorer. A message prompts you to confirm if you want to upgrade the software. Click **Yes** to continue.
- 5. Click **Next** to begin the upgrade.
- 6. When the **Update Complete** page appears, click **Finish**.
- 7. When prompted to restart the system, click **Yes**.
- 8. Exit Update mode.

> sadmin end-update

This step places the system in Enabled mode.

Upgrade in silent mode

You can upgrade the software in Silent mode.



If your system is in Enabled or Disabled mode, you can upgrade in the current mode. In Enabled mode, you can upgrade the software on all supported Windows platforms. Before using a software distribution tool to upgrade in Enabled mode, assign updater rights to all relevant binary files. To assign updater rights to a file, use the updaters add

spinary files command.

Task

- 1. Log on to the system with administrator rights.
- 2. Verify that the required installer is available.
- 3. Open a command window and switch to Update mode.

> sadmin begin-update

4. Run one of these commands.

```
<installer-file> /s /v" /qn
```

<installer-file> /s /v" /qn

Notice the double quotes (") after \sqrt{v} and space between \sqrt{s} and \sqrt{v} . There is no space between \sqrt{v} and double quotes ("). Here is a description of all possible arguments for the command. You can optionally specify one or more of these arguments.

Argument	Description
SHORTCUT	Create a desktop shortcut to access the command-line tool. Possible values for this argument are 0 and 1. Specify a value of 1 to create the shortcut and 0 to skip the shortcut creation.

Argument	Description
	<installer-file> /s /v" /qn UNLICVER=1 SHORTCUT=1"</installer-file>
POSTINSTALL	Specify a file to perform post-installation configuration on the system. To specify file paths that contain spaces, enclose the paths in double quotes ("). <installer-file> /s /v" /qn UNLICVER=1 POSTINSTALL=\"C:\\My Dir\\batch.exe\""</installer-file>
INSTALLDIR	Install the software at a user-specified location. With this argument, you can specify a folder path of up to 240 characters (total string length including special characters). <installer-file> /s /v" /qn SERIALNUMBER=xxxx-xxxx-xxxx-xxxx INSTALLDIR=\"C:\\My Dir\\McAfee\\Solidcore\""</installer-file>
/1+*v	Change the default location of the Solidcore_Installer.log file. By default, this file is placed in the SYSTEMROOT directory. <installer-file> /s /v" /qn UNLICVER=1 /l+*v \"C:\\Solidcore_Installer.log\""</installer-file>

- 5. Restart the system to complete the upgrade.
- 6. Exit Update mode.

> sadmin end-update

This step places the system in Enabled mode.

Verify the upgrade on an unmanaged system

You can verify if that software is upgraded successfully on an unmanaged system.

- 1. Run the sadmin version command to verify that the correct version of the software is listed.
- 2. Check if these components still exist:
 - An entry for McAfee Solidifier in the **Programs** menu.
 - The swin.sys file at the %SystemRoot%\Windows\System32\drivers location.
 - The McAfee Solidifier Service under Windows services.
 - Product-specific registry settings:
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\swin
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\scsrvc
 - · Additional files in the installation directory. These files are internal to the product and cannot be changed.

- Solidcore_Installer.log and solidcore_setup.log files under %SYSTEMROOT%. You can view the log file contents to verify if errors occurred during the upgrade.
- MPT installer log files, mac_mpt.etl and mac_mpt.log, are under %SYSTEMROOT%.

Remove the software Remove the Solidcore client from managed endpoints

You must remove the Solidcore client from the endpoints to uninstall the software.

Task

- 1. Place the endpoints in Disabled mode.
- 2. Restart the endpoints.
- 3. On the McAfee ePO console, select **Menu** \rightarrow **Systems** \rightarrow **System Tree**.
- 4. Apply the client task to a group or endpoint:
 - Group Select a group in the System Tree and switch to the Assigned Client Tasks tab.
 - Endpoint Select the endpoint on the Systems page and click Actions → Agent → Edit Tasks on a Single System.
- 5. Click Actions → New Client Task Assignment to open the Client Task Assignment Builder page.
- 6. Select the McAfee Agent product, Product Deployment task type, and click Create New Task to open the Client Task Catalog page.
- 7. Specify the task name, add any descriptive information, select the platform, and specify the components and action:
 - Select the appropriate package from the Products and components list, then click Remove.
 - Select the language of the package and Set branch to **Current** for new packages.
- 8. Click Save.
- 9. Specify scheduling details and click **Save**.
- 10. Verify the Solidcore client removal.
 - a. Click Wake Up Agents to fetch properties immediately. Typically, information is exchanged between the agent and the server after an agent-server communication interval (ASCI). The default ASCI value is 60 minutes. Send an agent wake-up call to verify immediate communication and data exchange between the server and the agent, without waiting for the ASCI to expire.
 - b. Click an endpoint on the **Systems** page to view details for the selected endpoint.
 - c. Click the **Products** tab and make sure that Solidcore is not listed.

Remove the Solidcore extension from McAfee ePO

You must remove the Solidcore extension from the McAfee ePO server to successfully uninstall the software.

Warning

If you uninstall the Solidcore extension, the extension is removed from the McAfee ePO server and database with all associated policies and tables.

- 1. On the McAfee ePO console, select **Menu** → **Software** → **Extensions** to open the **Extensions** page.
- 2. Select **Solidcore** from the **Extensions** list.
- 3. Click Remove.
- 4. Verify that the Solidcore product name no longer appears in the **Extensions** list.

Results

If the product name is not removed or you encounter errors when you uninstall, review the Orion.log file in the <McAfee ePO install dir>\Server\Logs directory to analyze the cause of the failure.

Remove the Solidcore client package from McAfee ePO

You must remove the Solidcore client package from the McAfee ePO server to successfully uninstall the software.

Task

- 1. On the McAfee ePO console, select **Menu** → **Software** → **Main Repository** to open the **Packages in Main Repository** page.
- 2. Select Solidcore Client for Windows.
- 3. Click Actions → Delete Package to delete Solidcore Client for Windows package.
- 4. Click OK.

Uninstall in interactive mode from an unmanaged system

You can uninstall the software in interactive mode. The installer starts a wizard that guides you through the uninstallation.

Task

- 1. Log on to the system with administrator rights.
- 2. Switch to Disabled mode.

> sadmin disable



Disabling the software requires a system reboot.

- 3. Start the installer.
 - For Windows 7 and later, navigate to and open the Programs and Features window.
 - For other Windows platforms, navigate to and open the **Add or Remove Programs** window.

4. Select **McAfee Solidifier** from the list of programs and click **Remove**.

A message prompts you to confirm if you want to remove the software.

5. Click Yes to continue.

The software is removed from the system. During uninstallation, all software-related files are removed from the system. A few files might remain in your system. Perform these steps to remove the remaining files:

- Empty the Solidcore folder in the installation directory (typically, C:\Program Files\McAfee)
- Empty the Certificate folder if it contains any public certificates.

If needed, you can manually delete these components.

Uninstall in silent mode from an unmanaged system

You can uninstall the software in silent mode from an unmanaged system. To perform a silent uninstall, use the command-line options to suppress interaction and provide parameters for all options.

Task

- 1. Log on to the system with administrator rights.
- 2. Open a command window and switch to Disabled mode.

> sadmin disable



Disabling the software requires a system reboot.

3. Run this command.

%SYSTEMROOT%\system32\msiexec.exe /X{432DB9E4-6388-432F-9ADB-61E8782F4593} /qn

After uninstalling the software, check if components have been deleted:

- An entry for McAfee Solidifier is not added to the Programs menu.
- The swin.sys file is not at the %SystemRoot%\Windows\System32\drivers location.
- The McAfee Solidifier Service is not under Windows services.
- Product-specific registry settings have been deleted:
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\swin
 - HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\scsrvc
- Additional files are not in the installation directory.
- Solidcore_Installer.log and solidcore_setup.log files are not under %SYSTEMROOT%.
- MPT installer log files: mac_mpt.etl and mac_mpt.log are not found under %SYSTEMROOT%.

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