



CC Evaluation and Configuration Guide

Revision C

McAfee Change Control and McAfee Application Control 8.0.0

For use with McAfee ePolicy Orchestrator

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Introduction

The Target of Evaluation (TOE) is McAfee® Change Control and McAfee® Application Control version 8.0.0 with McAfee® ePolicy Orchestrator® (McAfee® ePO®) version 5.3.2. The TOE is a Change Control and Application Control software solution with robust management functionality.

Contents

- ▶ *Purpose*
- ▶ *Target audience*
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Purpose

This document provides guidance on the secure installation of the TOE for the Common Criteria Evaluation Assurance Level EAL2+ Evaluated Configuration. This document provides clarifications and changes to the McAfee documentation and should be used as the guiding document for installation of the TOE in the Common Criteria evaluated configuration. The official McAfee documentation should be referred to and followed only as directed within this guidance document.

Here are the guidance documents relevant to the installation and configuration of the TOE. It should be noted that although the guidance documents refer to McAfee ePO 5.3.0, they are equally applicable to McAfee ePO 5.3.2 unless indicated otherwise by information provided in the McAfee ePO 5.3.2 Release Notes.

Document	Description
<p>Installation Guides</p> <ul style="list-style-type: none"> • McAfee ePolicy Orchestrator 5.3.0 Installation Guide • McAfee Change Control and McAfee Application Control 8.0.0 Installation Guide (for use with McAfee ePO) 	Includes steps for the basic initialization and setup of the TOE.
<p>Administration Guides</p> <ul style="list-style-type: none"> • McAfee ePolicy Orchestrator 5.3.0 Product Guide* • McAfee ePolicy Orchestrator 5.3.0 User Guide (FIPS Mode) • McAfee Change Control and McAfee Application Control 8.0.0 Product Guide (for use with McAfee ePO) • McAfee Agent 5.0.3 Product Guide (for use with McAfee ePO)‡ • McAfee Change Control 8.0.0 Release Notes • McAfee Application Control 8.0.0 Release Notes • McAfee ePolicy Orchestrator 5.3.1 Release Notes • McAfee ePolicy Orchestrator 5.3.2 Release Notes • McAfee ePolicy Orchestrator 5.x Release Notes for Hotfix 1133331 • McAfee ePolicy Orchestrator 5.x Release Notes for Hotfix 1178101 • McAfee ePolicy Orchestrator 5.x Release Notes for Hotfix 1205305 • McAfee Agent 5.0.4 Release Notes • McAfee Change Control 8.0.0 Command Line Reference Guide • McAfee Application Control 8.0.0 Command Line Reference Guide <p> While direct use of the CLI is out of scope of the evaluation, commands can be issued through McAfee ePO as part of a Run task operation on a managed system, and hence the guides are relevant.</p>	Contains detailed steps for how to properly configure and maintain the TOE.

* The guidance for McAfee ePO 5.3.0 applies equally to McAfee ePO 5.3.2.

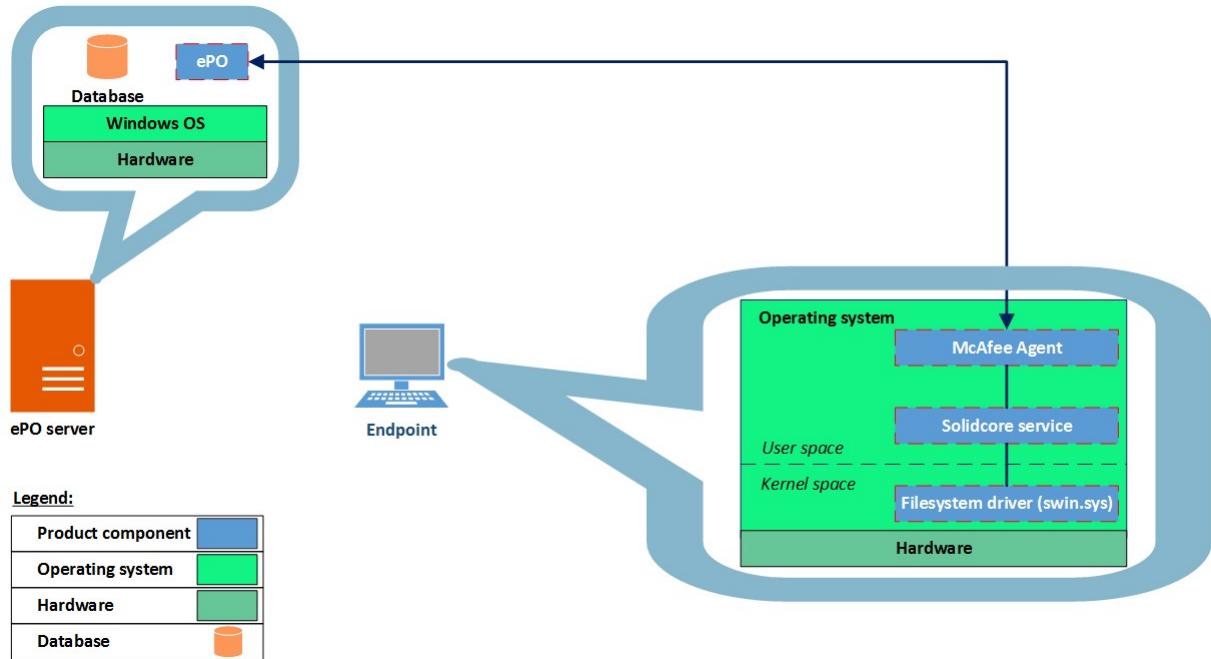
‡ The guidance for McAfee ePO 5.3.0 applies equally to McAfee Agent 5.0.4.

Target audience

The audience for this document consists of users, McAfee development staff, Common Criteria Evaluation laboratory staff, and government certifiers.

Deployment configuration

Here is the evaluation configuration of the TOE.



Assumptions

The writers of this document assume the following:

- The TOE has access to all the IT (Information Technology) System data it needs to perform its functions.
- The IT Environment will provide reliable time stamps for the TOE to use.
- The processing resources of the TOE will be located within controlled access facilities, which will prevent unauthorized physical attack and physical modification.
- There will be one or more competent individuals assigned to manage the TOE and the security of the information it contains.
- The authorized administrators are not careless, willfully negligent, or hostile, and will follow and abide by the instructions provided by the TOE documentation.
- The TOE will be managed in a manner that allows it to appropriately address changes in the IT System the TOE monitors.
- The installer is familiar with and knowledgeable on the TOE guidance documents listed in the *Purpose* section.

References

Here are references for this document.

- *Security Target Change Control and Application Control v8.0.0 with ePolicy Orchestrator v5.3.2*

Installation overview

Describes the installation procedure notes and changes.

Follow these instructions to properly step through the installation instructions documented in the Product Installation Guides, along with additions and changes to the instructions contained therein, in order to allow the installer to properly install the evaluated configuration of the TOE.

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- ▶ *Before you begin*
- ▶ *Download software*
- ▶ *Install McAfee ePO*
- ▶ *Install Application Control and Change Control*
- ▶ *Enable endpoint audit*
- ▶ *Verify installed components*

Before you begin

Take care of these prerequisites before installation.

Before administrators begin the installation, they should ensure that these are available.

- *McAfee ePolicy Orchestrator 5.3.0 Installation Guide* - This guide lists the required components to install the McAfee ePO portion of the TOE.
- *McAfee Change Control and Application Control 8.0.0 Installation Guide* (for use with McAfee ePO- This guide lists the required components to install the McAfee Application Control and McAfee Change Control client and extension portions of the TOE).

The architecture of the evaluated configuration consists of the following components:

- McAfee ePO server
- McAfee Agent
- McAfee Application Control and McAfee Change Control applications

Download software

After the purchase of the TOE has been processed through the McAfee order fulfilment system, a Grant Code is issued to the customer via email. The Grant Code provides access (for up to one month) to the relevant downloadable files on a McAfee Downloads server. The URL of the server is communicated to the customer in the same email as the Grant Code.

The Grant Code provided to the customers allows access to only the relevant downloads (as opposed to other McAfee products). The customer is presented with the **My Products** page, with the **Products** tab displayed by default, which lists the products available for download. If copies of license keys are required, select the **License Keys** tab.

To download the components for the TOE installation, select the McAfee Application Control or McAfee Change Control product from the **Products** tab. By default, the root download page opened displays the latest (current) major release of the product (labeled McAfee Application Control or McAfee Change Control depending on the option selected from the **My Products** page). If a later version of one or more of the components has been released since certification of the TOE, select the **All Versions** tab to display earlier releases of the component.

To download the Application Control and Change Control components. select the McAfee Application Control 8.0 or McAfee Change Control 8.0 entry (as applicable to the selection made on the **Products** tab above) in the **Endpoint Security** list. This will open the **Application Control/Change Control 8.0** page. Refer the following table to navigate to the relevant pages and entries to download the files.

Navigate to tab	Select these entries	Version	Platform
Extensions tab	ePO Management Extension	8.0.0.1820	Windows
	Help Extension	8.0.0.060*	Windows
Packages tab	Solidcore Client for Windows	8.0.0.651	Windows
Documentation tab	Documentation [‡]	8.0.0	Windows
Documentation tab	License file for McAfee Application Control/Change Control [§]	8.0.0	Windows

* This is equally applicable to the 8.0.0.1820 ePO Management Extension.

‡ To download the Product Guide, Installation Guide, and Release Notes.

§ The license file available for download depends on whether Application Control 8.0 or Change Control 8.0 was selected in the previous step. License files of both Application Control and Change Control are required. Repeat the above steps, selecting the other product, to download the license file of the other product.

Return to the root **Application Control /Change Control** download page, select the **McAfee Agent 5.0** entry in the **Management Solutions** list. This will open the **McAfee Agent 5.0** page. Refer the following table to navigate to the relevant pages and entries to download the files.

Navigate to tab	Select these entries	Version	Platform
Hotfixes tab	Install - Windows (hotfix1179191)	5.0.4.470*	Windows
Extensions tab	ePO Policy and Reporting Extension (RTW)	5.0.4.104 [‡]	Windows
Documentation tab	Product Guide - On Prem-English (RTW)	5.0.3 [§]	Windows, Mac, Linux
	Release Notes - English (RTW)	5.0.4	Windows, Mac, Linux

* The version **without** embedded credentials.

‡ This is equally applicable to McAfee Agent 5.0.3.272.

§ This is equally applicable to McAfee Agent 5.0.4.

Return again to the root **Application Control /Change Control** download page, select the **McAfee ePolicy Orchestrator 5.3** entry in the **Management Solutions** list. This will open the **McAfee ePolicy Orchestrator 5.3** page. Refer the following table to navigate to the relevant pages and entries to download the files.

Navigate to tab	Select these entries	Version	Platform
Patches tab	Install - ePO 532	5.3.2.156	Windows
Hotfixes tab	Install - EPO532HF1167013	5.3.2.1167013	Windows
	Install - EPO5xHF1178101	5.3.2.1178101	
	Install - EPO_FIPS_HF1205305	5.3.2.1205305 *	
Extensions tab	Help	5.3.0.031*	Windows
Documentation tab	Release Notes ePO 532 en-us	5.3.2	Windows

Navigate to tab	Select these entries	Version	Platform
	Release Notes - EPO532HF1167013	5.3.2.1167013	Windows
	Release Notes - EPO5xHF1178101	5.3.2.1178101	
	Release Notes - EPO_FIPS_HF1205305	5.3.2.1205305	
	FIPS Mode User Guide	5.3.0*	Windows
	Install Guide	5.3.0*	Windows
	Product Guide	5.3.0*	Windows

* This is equally applicable to McAfee ePolicy Orchestrator 5.3.2.156.

The product is digitally signed with the McAfee certificate. To verify that the downloaded items are correctly signed, the user can extract the files from the downloaded zip files. After the files are extracted, right click the application files and select the **Digital Signature** tab. The **Signer Information** will detail McAfee, Inc. The **View Certificate** option can be viewed to verify the certificate was issued by Verisign. Here are the applications you can verify.

Applications	Associated files
McAfee ePO	<ul style="list-style-type: none"> EPO532Lic\setup.exe
McAfee Agent	<ul style="list-style-type: none"> MA504WIN\MFEagent.msi MA504WIN\MFEagent_x64.msi MA504WIN\Bootstrap.exe MA504WIN\FrameworkPackage.exe
Application Control and Change Control client	<ul style="list-style-type: none"> setup-win-7-2008r2-amd64-8.0.0.651.exe setup-win-7-x86-8.0.0.651.exe setup-win-8-10-2012-amd64-8.0.0.651.exe setup-win-8-10-x86-8.0.0.651.exe setup-win-2008-amd64-8.0.0.651 setup-win-2008-x86-8.0.0.651
Solidcore extension*	Solidcore_epo_extn_8.0.0.182.zip

* The signature for the Solidcore extension is verified during the installation of the extension to McAfee ePO. See section *Install instructions*.

Install McAfee ePO

Instructs the user on how to appropriately install the TOE.

The *McAfee ePolicy Orchestrator 5.3.0 Installation Guide* lists the required components to install the McAfee ePO portion of the TOE.

Install Windows SQL 2008 SP2 database

Install Windows SQL 2008 SP2 database based on the Custom Setup steps detailed in Chapter 2 of the guide and use the SQL database name and credentials created. Windows SQL 2008SP2 requires .Net 3.5, which is not configured by default during the installation of 2012 Server R2.

To enable .Net3.5, perform the following steps from the Windows Server Manager:

- 1 Select **Manage**.
- 2 Select **Add Roles and Features**.
- 3 Click **Next** on the Feature Wizard.
- 4 Select **Role-based or Feature-based installation** and click **Next**.
- 5 Select your server from the pool and click **Next**.
- 6 Click **Next** to bypass the server roles.
- 7 Select **.Net Framework 3.5 Features** and click **Next**.
- 8 Close Windows Server Manager.

Use FIPS mode

It is mandatory to deploy McAfee ePO in FIPS mode to comply with the Common Criteria evaluated configuration.

The Common Criteria evaluated configuration requires that the TOE is installed in FIPS mode. In general, installing McAfee ePO in FIPS mode follows the same basic procedure as outlined in the *McAfee ePolicy Orchestrator 5.3.0 Install Guide*. However, as detailed in the *McAfee ePolicy Orchestrator 5.3.0 User Guide for FIPS Mode*, FIPS mode installation requires that you run the `setup.exe` installer from the command line.

- 1 In a command window, change directories to the folder containing the McAfee ePO installer.
- 2 Invoke the installer with the command `setup.exe ENABLEFIPSMODE=1`.
- 3 Continue with the installation using the instructions in the *ePolicy Orchestrator 5.3.0 Installation Guide*.

Note: Do not change the default setting for the agent-server secure communication (ASSC) port. Set the value to 443. In FIPS mode, the agents communicate with the McAfee ePO server using this ASCC secure port.

Install hotfixes 1178101, 1205305 and 1167013 by performing these tasks:

- 1 Extract the contents of the files containing the hotfixes (EPO532HF1167013.zip, EPO5xHF1178101.zip and EPO_FIPS_HF1205305.zip).
- 2 Run each of the executables from the extracted zip files and follow the on-screen instructions.

Use the shortcut added to the Desktop to launch ePolicy Orchestrator 5.3.2 and authenticate using the credentials entered during the installation process for McAfee ePO administration. Review the information provided in the *Configure essential features* section in Chapter 4 of *McAfee ePolicy Orchestrator 5.3.0 Product Guide* to complete these tasks.

- 1 On the McAfee ePO console, select **Menu | Software | Master Repository** and check in the McAfee Agent 5.0.4 with hotfix 117919 to the McAfee ePO repository (see Chapter 2 of *McAfee Agent 5.0.3 Product Guide*). Note the updated .zip files for the McAfee Agent (MA504HF1179191WIN.zip) and Solidcore package (SOLIDCORE800-651_WIN.zip).
- 2 On the McAfee ePO console, select **Menu | Software | Extensions**
 - a Click **Install Extension**.
 - b Browse to the McAfee Agent (Solidcore_epo_extrn_8.0.0.182.zip) file and click **OK**. The installation dialog box displays the file parameters to verify that you are installing the correct extension.

- c Make sure that the **Signed by** field reads **Signed by McAfee**. If the **Signed by** field reads **Not signed by McAfee**, do not install the extension.
- d Repeat steps a-c to install the product help extension (help_mcc_mac_800.zip).

3 On the McAfee ePO console, select **Menu | Configuration | Server Settings | Solidcore**, then click **Edit** to open the **Edit Solidcore** page. Enter the license keys, then click **Save**.

4 Configure the Active Directory server as an LDAP server on McAfee ePO (see Chapter 7 of *McAfee ePolicy Orchestrator 5.3.0 Product Guide*).

5 Perform LDAP server synchronization (using the **LdapSync : Sync across users from LDAP** server task) to populate the **System Tree** (see Chapter 9 of *McAfee ePolicy Orchestrator 5.3.0 Product Guide*).

6 Configure support for Windows authentication:

- a On the McAfee ePO console, select **Menu | Configuration | Server Settings | Active Directory User Login** and click **Edit**, then enable the **Allow Active Directory users to login if they have at least one permission set** check box.
- b Map McAfee ePO permission sets to Active Directory groups in your environment by performing these steps:
 - a On the McAfee ePO console, select **Menu | User Management | Permission sets**.
 - b Click **New** to open the **New Permission Set** page to create a new permission set with the necessary privileges.
 - c Specify the permission set name.
 - d In the **Active Directory groups mapped to this permission set** drop down list, select LDAP server.
 - e Click **Add** and browse to the directory (container and children).
 - f Select user group (for example, epogroup) and click **OK**.
 - g Click **Save** on the **New Permission Set** page.
- c On the **Permission Sets** page, confirm **Name and users** entry for new permission set has one Active Directory Group mapping.
- d Select the new permission set in left pane, and click **Edit** for the permissions to assign to this permission set (for example, Dashboards: User public Dashboards).
- e To configure an associated user account, navigate to **Menu | User Management | Users** page. Click **New User**, specify a name for the new user and set user authentication type to Windows Authentication. Provide details of the domain user to associate with the McAfee ePO user account in the local active directory domain (for example, testepo user).

7 Deploy the McAfee Agent using one of the methods described in the *Methods of installing McAfee Agent* section of Chapter 2 in the *McAfee Agent 5.0.3 Product Guide*.

Understand McAfee ePO features

After installing McAfee ePO, review and follow these sections of the *McAfee ePolicy Orchestrator 5.3.0 Product Guide*.

- 1 *Configure essential features*, Chapter 4
- 2 *Enter your license key*, Chapter 4
- 3 *Register LDAP servers*, Chapter 7

- 4 *Active Directory synchronization*, Chapter 9
- 5 *Deploy products using a deployment project*, Chapter 14

Note: The evaluated configuration supports the use of only SQL Server 2008 R2. Also, cluster Installations of McAfee ePO are not supported in the evaluated configuration.

Install Application Control and Change Control

Install McAfee Agent, Application Control, and Change Control to support its deployment to the endpoint devices to be managed.

After the McAfee ePO server is installed, check in McAfee Agent and the Application Control and Change Control extension into the McAfee ePO repository. For instructions review Chapter 2 of the *McAfee Agent 5.0.0 Product Guide*.

Here is high-level summary of the steps to follow:

Task

- Review Chapter 1 of the *McAfee Change Control and Application Control 8.0.0 Installation Guide* for install instructions. Detailed steps are provided to:
 - 1 Install the Solidcore Extension.
 - 2 Specify Licenses using the license keys detailed in the downloaded license files.
 - 3 Install the Solidcore client.

Enable endpoint audit

The Common Criteria evaluated configuration requires that certain Solidcore events on the endpoint are recorded.

To ensure these events are generated in the deployment, review Appendix A (FAQs) of *McAfee Change Control and McAfee Application Control 7.0.0 Product Guide*. Follow the instructions provided for the *Why am I not receiving the events for user account activity for an endpoint* FAQ.

Verify installed components

Review this section to verify if components are installed correctly.

Tasks

- [Version of installed components](#) on page 14
Provides instructions on how to verify the version of the installed components.
- [Verification of FIPS mode](#) on page 15
The installation of the TOE components in accordance with **Use FIPS mode** above will ensure the components are installed in FIPS mode. This can be verified for both the McAfee ePO and client components.

Version of installed components

Provides instructions on how to verify the version of the installed components.

For details about product features, usage, and best practices, click **?** or **Help**.

Task

- 1 View the McAfee ePO version.
 - a Select **Menu** on the McAfee ePO console.
The drop-down list displays. The left pane lists the recent pages and a description of the current page.
 - b Review the McAfee ePO build, server, and user information at the bottom of the left pane.
 - c Verify that the McAfee ePO build for the evaluated configuration is *ePolicy Orchestrator 5.3.2 (Build 156)*.
- 2 Validate the applied hotfixes.
 - a On the McAfee ePO console, select **Menu | Configuration | Server Settings**.
 - b Scroll down to **Server Information** and verify the Java version reads 1.8.0_121.
- 3 Review the client version.
 - a Login to the endpoint.
 - b Navigate to the McAfee Agent icon.
 - c Select the **Help** option.
 - d Verify that McAfee Agent version is 5.0.4.470 and McAfee Solidifier version is 8.0.0.651.

Verification of FIPS mode

The installation of the TOE components in accordance with **Use FIPS mode** above will ensure the components are installed in FIPS mode. This can be verified for both the McAfee ePO and client components.

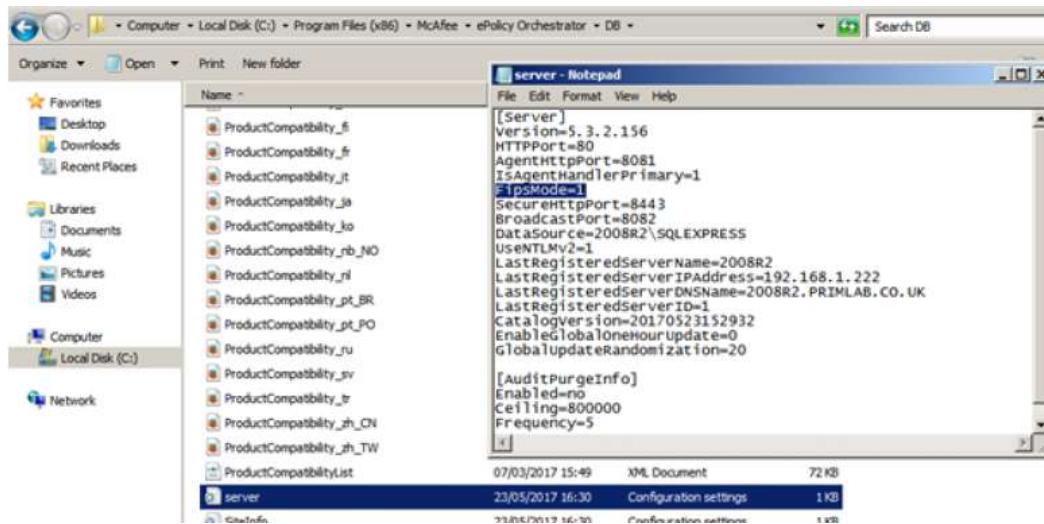
Task

For details about product features, usage, and best practices, click **?** or **Help**.

- 1 Verify the Agent Handler is in FIPS mode - (RSA BSAFE C library)

Verify the server.ini to make sure that McAfee ePO server is running in FIPS mode.

- a Use a text editor to open the `server.ini` file. The server.ini is located in your installation directory: `<epoinstalldirectory>\DB\server.ini`
- b Look for the `FipsMode` value. This value indicates the server operating mode:
 - `FipsMode=0` - The server is in Mixed (normal) mode.
 - `FipsMode=1` - The server is in FIPS mode.



Installation overview

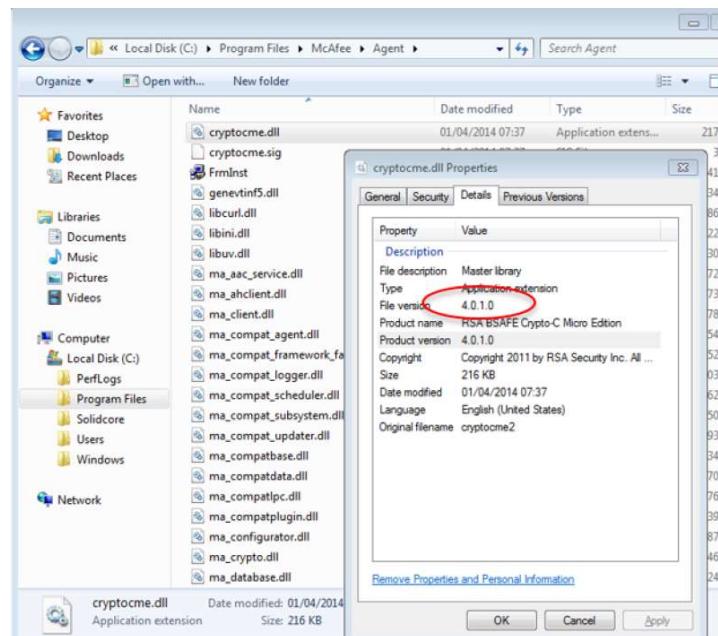
Verify installed components

2 Verify McAfee ePO Apache is in FIPS mode - (OpenSSL library)

The McAfee ePO Apache component is used to establish the agent-server communication. This component has its own FIPS-enablement configuration setting, which must be verified as follows:

- a Navigate to the McAfee ePO installation folder. The default folder is c:\Program Files (x86)\McAfee\ePolicy Orchestrator\.
- b Navigate to the Apache configuration folder, Apache2\conf.
- c Open the httpd.conf file in any text editor.
- d Search for the SSLFIPS value. It is one of the following values. If not found, the default value is off:
 - Off - Apache mod_ssl is not configured for FIPS enablement.
 - On - Apache mod_ssl is configured for FIPS enablement.

- 3 Verify the version of OpenSSL used by the Apache server.
 - a Navigate to the C:\Program Files (x86)\McAfee\ePolicy Orchestrator\Apache2\bin directory.
 - b Right-click the ssleay32.dll file.
 - c Select **Properties**.
 - d On the **Details** tab, ensure that the value for the **Product version** property is set to 1.0.2l (1.0.2.12).
- 4 Verify correct installation of client component in FIPS mode.
 - a Log on to a Windows 7 (64-bit) endpoint.
 - b Navigate to the C:\Program Files\McAfee\Agent directory.
 - c Right-click the cryptocme.dll file.
 - d Select **Properties**.
 - e On the **Details** tab, ensure that the value for the **File version** property is set to 4.0.1.0 (the FIPS validated version).



Administrative Guidance

Provides guidance on how to properly configure and maintain the TOE.

Review these guidelines to properly step through the configuration and maintenance instructions documented in the *Product Administration Guides*, along with additions and changes to the instructions contained therein, to allow the administrator to properly configure and maintain the evaluated configuration of the TOE. The TOE administrator should follow all the guidance documentation listed in the *Purpose* section to ensure the proper installation, configuration, and management of the TOE Security functions.

Before administrators begin the configuration, they should ensure that they have all the necessary components. The following items will be needed and must be acquired before continuing with this guidance:

- McAfee ePO server
- Machines on the local network to deploy agents and the Application Control and Change Control software
- Working Internet connection with the appropriate firewall ports open

The architecture of the evaluated configuration consists of the following components:

- McAfee ePO server
- One or more instances of the McAfee Agent
- One or more instances of the Application Control and Change Control applications
- Few machines to be monitored and controlled

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- ▶ *Acronyms*

Clarifications

Here are some clarifications for your reference.

- The Administrative and Installation guidance make several references to passwords that are created during the installation and maintenance of the TOE. Here are guidelines for passwords:
 - Should be at least eight characters long
 - Contain at least one upper- and one lower-case character (A-Z and a-z)
 - Contain at least one number (0-9)
 - Contain at least one special character (any symbol, such as / , . # * { })

- Local McAfee ePO authentication is to be configured for all McAfee ePO users to comply with the requirements defined in the *Security Target McAfee Change Control and Application Control 7.0.0 with ePolicy Orchestrator 5.3.2*. Windows authentication and certificate authentication of McAfee ePO users are not included in the evaluated configuration.
- As defined in *Security Target McAfee Change Control and Application Control 7.0.0 with ePolicy Orchestrator 5.3.2*, it is considered that McAfee ePO maintains two types of roles:
 - Users assigned the **administrator** permission set, which is a superset of all other permission sets. This includes the default *admin* user account created when McAfee ePO is installed. Users assigned this permission set are known as *administrators*.
 - Users assigned selected permission sets are known as *users with selected permissions*.

Exclusions

Lists TOE exclusions for the evaluated configuration.

The following functionality has been excluded from the TOE for the evaluated configuration:

- CLI (Command Line Interface) Utility
- Reputation-based execution using McAfee TIE and GTI
- Product Integrity
- Package Control
- Observation throttling
- AntiDoS
- Heartbeat Timeout
- Message Exchange Interval
- Secure Signed Update Utility
- Distributed Repositories
- SNMP (Simple Network Management Protocol)
- SuperAgents
- Windows and Certificate authentication
- Remote Agent Handlers
- Ticketing functionality
- Rogue System Detection
- Open API (Application Programming Interface) to Third-party products

Administrators should ensure that use of any of the above-listed functionality is outside the scope of the CC certification and ignore any references to this functionality as it appears in the administrative guidance.

Acronyms

Here are the acronyms used in this document.

Acronym	Definition
API	Application Programming Interface
CLI	Command Line Interface
EAL	Evaluation Assurance Level
McAfee ePO	ePolicy Orchestrator
IT	Information Technology
LDAP	Lightweight Directory Access Protocol
OS	Operating System
SNMP	Simple Network Management Protocol
TOE	Target of Evaluation

C00