SIEMENS

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SIMATIC

Process Control System PCS 7 Configuring McAfee Application Control

Commissioning Manual

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

indicates that death or severe personal injury will result if proper precautions are not taken.

WARNING

indicates that death or severe personal injury may result if proper precautions are not taken.

with a safety alert symbol, indicates that minor personal injury can result if proper precautions are not taken.

CAUTION

without a safety alert symbol, indicates that property damage can result if proper precautions are not taken.

NOTICE

indicates that an unintended result or situation can occur if the relevant information is not taken into account.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

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Note the following:

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

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We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Warning concept

This manual contains information that you must observe for the sake of your own safety and to avoid damage to assets. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol. Notices referring only to equipment damage have no safety alert symbol. Warnings are shown in descending order according to the degree of danger as follows.

Indicates that death or severe personal injury will result if proper precautions are not taken.

Indicates that death or severe personal injury may result if proper precautions are not taken.

With a safety alert symbol indicates that minor personal injury can result if proper precautions are not taken.

CAUTION

Without a safety alert symbol indicates that damage to property may result if proper precautions are not taken.

NOTICE

Indicates that an unintended result or situation can occur if the corresponding information is not taken into account.

In the event of a number of levels of danger prevailing simultaneously, the warning corresponding to the highest level of danger is always used. A warning with a warning triangle indicating possible injury to personnel may also include a warning relating to property damage.

Qualified personnel

The product/system described in this documentation may only be operated only by personnel qualified for the specific task in accordance with the relevant documentation for the specific task, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

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Disclaimer of liability

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Preface

Purpose of the documentation

This documentation describes the use of McAfee Application Control in the SIMATIC PCS 7 and WinCC environment, including its installation and recommended adjustments after installation.

Knowledge required

This documentation is aimed at persons involved in the engineering, commissioning, and operation of automated systems based on SIMATIC PCS 7 or WinCC. Knowledge of administration and IT techniques for Microsoft Windows operating systems is assumed.

Scope of the documentation

The documentation applies to process control systems equipped with the respective product version of SIMATIC PCS 7, or WinCC.

NOTICE

Note that McAfee Integrity Control has released Whitelisting functionality (McAfee Application Control) only for specific product versions.

Additional information is available in the Internet at the following address:

http://support.automation.siemens.com/WW/view/en/10154608

Preface

Whitelisting

2.1 Introduction

Effective use of Whitelisting technologies in a process control system is only given as part of a comprehensive security concept. Whitelisting technologies alone cannot protect a process control system against hostile attacks.

It is therefore always advisable to take the Security concept PCS 7 / WinCC into consideration, which is available on the Internet at:

http://support.automation.siemens.com

In conjunction with the security concept mentioned above, Whitelisting is to be considered an additional layer of defense as an appropriate further means of counteracting the rising risk of malicious attacks.

Whitelisting takes the approach that all applications are not trusted, except for those which have been rated trustworthy after verification, which means that a positive list (Whitelist) is being maintained. This positive list contains all applications that have been rated trustworthy for execution on the computer system.

This renders the principle of Whitelisting the exact opposite of Blacklisting that is based on a list or definition of "non-trustworthy" applications (negative list, i.e. blacklist). An example of blacklisting is a standard virus scanner that operates based on a blacklist, namely the virus pattern. This blacklist must be updated continuously under the aspect of a continuously rising number of "non-trustworthy" applications. This means that an updated black (virus pattern) always has to made available for the virus scanner. The virus scanner is only able to detect "malware" if corresponding "applications" and attack patterns have been entered in this blacklist.

Whitelisting by contrast is based on a positive list and does not require continuous updates to combat new malware threats.

2.2 McAfee Application Control

2.2 McAfee Application Control

McAfee Application Control can be used to block execution of unauthorized applications on servers and workstations.

This means that once it has been installed and activated on a computer system, McAfee Application Control protects all executable files against manipulation and prevents execution of unknown files (that are not in the Whitelist).

By contrast to simple Whitelisting concepts, McAfee Application Control employs a dynamic trustworthiness model. This approach dispenses of time-consuming manual updates of the list of approved applications. Updates can be installed in different ways:

- By trusted users
- By trustworthy manufacturers (certificate)
- From a trusted directory
- By means of binary file
- By means of Updater (update programs such as WSUS, or virus scanners)

Moreover, McAfee Application Control provides a function that monitors memory, protects against buffer overflow, and protects the files that run in memory.

CAUTION

McAfee Application Control part of McAfee Integrity Control.

McAfee Integrity Control currently includes the McAfee Application Control and McAfee Change Control components.

Only the Whitelisting functionality, i.e. McAfee Application Control, is approved for use in the SIMATIC PCS 7 and WinCC environment.

For this reason, coverage in this documentation is restricted exclusively to this functionality.

SIEMENS customers may order McAfee Application Control as usual as separate software from McAfee or their distributors.

Administration

3.1 Administration

McAfee Application Control can be administered in different ways:

- Locally on a computer system (standalone)
- Centrally using McAfee ePolicy Orchestrator (ePO)

Decisions in favor of central or local administration should be made based on the number of systems to be maintained.

You have to use the following procedure that is independent on the type of administration:

Once McAfee Application Control has been installed on the computer, you first need to run the "solidify" function that scans all connected drives for the presence of executable files. The duration of this procedure depends on the data volume and computer performance and may take several hours. With current hardware, WinCC 7.0.2 Server installation and normal projects, this operation takes approx. 20 to 30 minutes.

You need to restart the computer after McAfee Application Control has been activated. All executables (exe, com, dll, bat, etc.) found during the scan are now protected against manipulation (renaming, deletion, etc.). New files cannot be executed.

3.2 Local administration of McAfee Application Control

Local administration is handled exclusively by means of command line input. The commands are intelligible and self-explanatory and McAfee provides excellent reference material. McAfee Application Control can be handled conveniently using batch files or scripts.

3.3 Central administration by means of McAfee ePO

3.3 Central administration by means of McAfee ePO

Architecture

McAfee ePO should be installed on a separate computer that contains the latest hardware. McAfee ePO may also be installed on an infrastructure computer (e.g. WSUS, virus scan server) that is already available in the system.

McAfee ePO may not be installed on an automation device or Domain Controller.



Central administration, meaning installation, configuration, and monitoring is handled by means of McAfee ePO (McAfee ePolicy Orchestrator), which is a management tool that is not only capable of managing all McAfee products, but also offers an extensive portfolio of network management and monitoring functionalities that are partially free of charge.

Similar to an Active Directory Domain, a central administration should be used in domains consisting of approx 10 or more managed systems.

All local commands and options of McAfee Application Control are also available remotely via ePO. This is partially based on predefined tasks, while remaining functions are being handled by means of remote command line options. By comparison to local administration, ePO offers superior monitoring functions and a clearly arranged event management.

Administration

3.3 Central administration by means of McAfee ePO

Using McAfee Application Control with PCS 7 and WinCC

The following sections explain the notices and special features associated with the use of McAfee Application Control in the SIMATIC PCS 7 & WinCC environment.

This information has been based on McAfee ePolicy Orchestrator (ePO) 4.5 (ePO Agent 4.0), and McAfee Application Control 5.1.

4.1 Preparing for installation

4.1 Preparing for installation

Once McAfee Application Control has been installed and activated on a device, it is not possible to execute new programs or manipulate (update) existing programs. You should follow the instructions below during integration of McAfee Application Control, or prior to its installation:

- 1. The system architecture should be set up in accordance with recommendations based on the Security Concept PCS 7 & WinCC in order to keep malware risks to the possible minimum prior and during integration of McAfee Application Control.
- 2. Install and configure the operating system.
- 3. Install all necessary programs and components.
- 4. Install all security updates that are available for the operating system and programs.
- 5. Install a virus scanner and update it with the latest virus signature files.
- 6. You should disconnect the device from external / third-party networks (e.g. at the frontend Firewall).
- 7. Run a complete virus scan on the device.
- 8. Install McAfee Application Control locally, or by means of ePO (see the following description).
- 9. "Solidify" all local hard disks and partitions, i.e. the computer system is scanned for executable programs; only the programs found can be executed in the future. (See the following description).
- 10. Activate McAfee Application Control and restart the device.

4.2 Local administration

4.2.1 AC Administrator

AC Administrator

McAfee Application Control can be protected by means of password so that even a local administrator is prevented from shutting down McAfee Application Control. This means that the "AC Administrator" can be set up independently from the local Windows Administrator.



4.2.2 Installation and configuration

Installation and configuration

Follow these steps to install McAfee Application Control locally on a computer system:

• Run the Setup for McAfee Application Control and follow the instructions in the dialogs. You can accept all default settings without modifications.

You should then run the "solidify" function for all hard disks and partitions.

Follow these steps:

• After completing the installation, open the McAfee Application Control command line with Start > Programs > McAfee > Solidifier > McAfee Solidifier Command Line



This opens Solidifier command line input:

🦁 McAfee Solidifier Command Line	
Microsoft Windows [Version 5.2.3790] <c> Copyright 1985-2003 Microsoft Corp.</c>	<u>*</u>
C:\Program Files\McAfee\Solidcore>	

• Start solidification by entering the "sadmin solidify" or "sadmin so" command

🦁 McAfee Solidifier Command Line - sadmin so	<u>_0×</u>
C:\Program Files\McAfee\Solidcore>sadmin so Solidifying volume C:\ 00:00:15: Total files scanned 973, solidified 40	1
	*

All partitions and local hard disks of the computer system are now scanned for the presence of executable files (applications), e.g. exe, com, bat, dll, as well as Java, Active-X control elements, and scripts. McAfee Application Control then signs and authorizes all files found during the scan for future use. It also protects the files against manipulation such as deletion, or renaming.



On successful completion of "solidification", the Solidifier command line reports the number of files scanned per partition or hard disk, including the number of files that have been authorized.

You need to activate McAfee Application Control on completion of "solidification". Enter the corresponding "sadmin enable" command at the Solidifier command line. The McAfee Solidifier Control will be activated at the next restart.

😻 McAfee Solidifier Command Line		- O ×
Copyright 2008 McAfee, Inc. Usage: sadmin <command/> [opt	All Rights Reserved. tions] [arguments]	-
Sadmin is the command line i	interface to administer McAfee Solidifier.	
auth begin-update (bu) cert disable enable end-update (eu) help help-advanced license monitor (mon) aef passwd solidify (so) status trusted unsolidify (unso) updaters version	Authorize checksum. Begin update window to allow updates to the system Add, list or remove trusted certificates Disable McAfee Solidifier control on next reboot Enable McAfee Solidifier control on next reboot End update window Display help for basic commands Display help for advanced commands Configure McAfee Solidifier licenses Modify or display the monitoring rules Modify or display advanced exclude filter rules. Set or unset a password for the actionable commands Solidify the system Display status of McAfee Solidifier Modify or display the rules for trusted paths Unsolidify the specified file Add, list or remove authorized updaters Display version of McAfee Solidifier	
Type 'sadmin help <command/> '	for detailed help on a specific command.	
C:\Program Files\McAfee\Sol:	idcore>_	-

Restart the computer. After the restart has been completed, you can query the status of McAfee Solidifier by entering the "sadmin status" command at the Solidifier command line.

😺 McAfee Solidifi	er Command Line	Statement of the local division of the local	And a state of the	
Microsoft Win (C) Copyright	dows [Version 5.2 : 1985-2003 Micros	2.37901 oft Corp.		-
C:\Program Fi McAfee Solidi McAfee Solidi Sustem Contro	iles\McAfee\Solido Ifier: Ifier on reboot:	ore>sadmin status Enabled Enabled Disconnected		
Local CLI acc	iess:	Recovered		
[fstype] * NIFS NIFS NIFS NIFS NIFS C:\Program Fi	[status] Solidified Solidified Solidified Solidified iles\McAfee\Solido	[driver status] Attached Attached Attached Attached Attached :ore>	[volume] C:\ D:\ F:\ L:\	
				<u> </u>

The computer system is now protected, which means that all applications it contains are protected against manipulation such as deletion, or renaming.

For information on how to enable explicit modifications, refer to the section "Update installation (Page 61)".

4.3 Central administration using McAfee ePolicy Orchestrator

4.3.1 Installing and configuring McAfee ePO Server

Installing and configuring McAfee ePO Server

McAfee ePolicy Orchestrator is an extensive software package that you can use to manage a multitude of different programs (including McAfee VirusScan). Moreover, it also provides the functionality of a network management tool. To be able to work with McAfee ePolicy Orchestrator, you actually need in-depth knowledge of the software. If you do not yet have any experience with McAfee ePolicy Orchestrator, you are strongly advised to carefully study the documentation and tutorials offered by McAfee.

The following paragraphs describe procedures for installing and configuring McAfee ePolicy Orchestrator, based on the following order:

- Installation of McAfee ePolicy Orchestrator 4.6
- Installation of the Solidcore Extension Package
- Installation of the license for Solidcore, or McAfee Application Control

Installation of McAfee ePolicy Orchestrator (ePO)

Install McAfee ePO on a separate computer that contains the latest hardware. System requirements are specified in the following listing:

Platform supported

- Server operating system: 32-bit
 - Windows Server 2008 + Service Pack 2 (SP2) Standard, Enterprise, or Datacenter
 - Windows Server 2003 + SP2 Standard, Enterprise, or Datacenter
- Server operating system: 64-bit
 - Windows Server 2008 + SP2 Standard, Enterprise, or Datacenter
 - Windows Server 2008 R2 Standard, Enterprise, or Datacenter
 - Windows Server 2008 for Small Business Premium
 - Windows Server 2003 + SP2 Standard, Enterprise, or Datacenter
- Browser
 - Firefox 3.5
 - Firefox 3.6
 - Internet Explorer 7.0
 - Internet Explorer 8.0

- Network support
 - IPv4
 - IPv6
- Virtual servers
 - VMware ESX 3.5.x update 4
 - VMware ESX 4.0 update 1
 - Citrix Deserver 5.5 update 2
 - Windows Server 2008 R2 Hyper-V
- Database (32-bit and 64-bit)
 - SQL Server 2008 + SP1/SP2/R2 Standard, Enterprise, Workgroup, Express
 - SQL Server 2005 + SP3 Standard, Enterprise, Workgroup, Express
- Additional requirements
 - 1.5 GB of free hard disk space (2 GB is recommended)
 - 1 GB RAM (2 GB to 4 GB is recommended)
 - At least Intel Premium 4 processor, 1.3 GHz or faster
 - Monitor: 1024 x 768 pixels, 256 colors, VGA
 - NIC: 100 Mbps or faster
 - File system: NTFS is recommended
 - It is recommended to set up a separate server for domains containing of more than 250 systems.
 - IP address: McAfee recommends the use of a static IP address

- 1. Run "setup.exe" to initiate installation of McAfee ePO.
- 2. Setup requirements are displayed. Follow the instructions in this dialog.



3. Click "Next" to launch the InstallShield Wizard for McAfee ePO.

4. Select the required setup type for the SQL Server.

🔂 McAfee ePolicy Orchestrator - Insta	allShield Wizard	×
Setup Type Choose the desired setup type.		
C <u>E</u> xpress		
Install and use Microsoft SQL Serve software on this system.	er 2005 Express Edition and required	
© <u>C</u> ustom		
Specify a custom installation locatio options, or modify the default ports	on, select alternate database server is.	
InstallShield		
	< Back Next > Car	ncel

5. Select which database server is to be used.

🔂 McAfee ePolicy Orchestrator - Insta	allShield Wizard 🔀
Choose Database Option Choose a database server to use.	
O Microsoft SQL <u>Express</u>	
Install and use Microsoft SQL Servers software on this system.	er 2005 Express Edition and required
Microsoft SQL Server	
Use an existing Microsoft SQL Serv	/er.
InstallShield	
	< Back Next > Cancel

6. The next dialog "Target folder" proposes a target folder for installation. To change this folder, click on "Change...".

🙀 McAfee	ePolicy Orchestrator - Inst	allShield Wiza	rd	×
Destinati Click Nex a differe	ion Folder xt to install to this folder, or clic ent folder.	k Change to inst	all to	
Þ	Install McAfee ePolicy Orches C:\Program Files (x86)\McAfe	strator to: ee\ePolicy Orches	strator\	<u>C</u> hange
InstallShield -		< <u>B</u> ack	Next >	Cancel

7. In the "Database information" dialog, specify the data that ePO uses to access the database, e.g. the database server and authentication details. In the "Domain" field, enter the domain name, or the computer name if the computer is not a domain member.

🕞 McAfee ePolicy Orchestrator - Insl	tallShield Wizard	×
Database Information Enter the Database information neede	d below.	
Database Server:		
		-
Database Server credentials:	Domain:	
• Windows authentication		•
O SQL authentication	Username:	
	I	
	Password:	
SQL server <u>T</u> CP port:		
InstallShield		
	< Back Next >	Cancel

8. In the "HTTP port information" dialog, specify the port numbers that the ePO server uses to communicate with the agents.

🚏 McAfee ePolicy Orchestrator - InstallShield Wizard	×
HTTP Port Information Enter the HTTP port information needed below.	
Agent-to-server communication port: Agent-to-server communication secure port: Agent wake-up communication port: Agent broadcast communication port: Console-to-application server communication port: Client-to-server authenticated communication port: Security threats communication port: SQL server TCP port:	80 443 8081 8082 8443 8444 8801 1435
InstallShield < Back	Next > Cancel

9. Click "Next" to open a dialog that once again shows you a summary of installation settings you made.

10.Specify the Administrator's user name and password for ePO in the next dialog "Global Administrator information".

🔂 McAfee ePolicy Orchestrator - Inst	allShield Wizard		×
Global Administrator Information Enter the Global Administrator informat	ion below.		
<u>U</u> sername:	admin]
Password:]
Verify Password:]
InstallShield	< <u>B</u> ack	Next > C	ancel

11.Enter your ePO license key in the "Enter license key" dialog.

🔀 McAfee ePolicy Orchestrator - Insta	IIShield Wizard					
Type License Key Please enter your license key.						
Type your ePolicy Orchestrator license k Evaluation to install an evaluation versio	ey. If you do not have a license key, select n of the software.					
C License Key:						
McAfee ePolicy Orchestrator 4.6 will periodically send back various system and network information, including threat information and license usage, to McAfee.						
InstallShield	< Back Next > Cancel					

12.Select "I accept the terms in the license agreement" to acknowledge the "McAfee End User License Agreement" in the next dialog.

McAfee Licensing							
McAfee®							
McAfee End User License Agreement							
License <u>e</u> xpiry type:	Select location where purchased and used:						
1 Year Subscription	United States (default for use in US)						
End User License Agreement NOTICE TO ALL USERS: PLEASE READ TH CLICKING THE ACCEPT BUTTON OR INST AN INDIVIDUAL OR A SINGLE ENTITY) AGR ENFORCEABLE LIKE ANY WRITTEN CONT AGREE TO ALL THE TERMS OF THIS AGREE INDICATES THAT YOU DO NOT ACCEPT TH NOT INSTALL THE SOFTWARE. 1. Definitions. a "Software" means (a) all of the contents of	IIS CONTRACT CAREFULLY. BY ALLING THE SOFTWARE, YOU (EITHER EE THAT THIS AGREEMENT IS RACT SIGNED BY YOU. IF YOU DO NOT EMENT, CLICK ON THE BUTTON THAT HE TERMS OF THIS CONTRACT AND DO						
media (including electronic media) with whi	ch this Agreement is provided or such						
 I accept the terms in the license agreement I do not accept the terms in the license agreement 	ent OK Cancel						

13.Click "Install" to launch the installation process that may take a few minutes. Setup is concluded by clicking "Finish" in the "InstallShield Wizard completed" dialog.

🙀 McAfee ePolicy Orchestrator - InstallShield Wizard	×I
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	_
< <u>B</u> ack <u>Install</u> Cancel	

4.3.2 Installing the Solidcore Extension Package

Installing the Solidcore Extension Package

On successful completion of your installation of McAfee ePolicy Orchestrator, install the "Solidcore Extension Package". Follow these steps:

1. Launch McAfee ePO by selecting

Start > Programs > McAfee > ePolicy Orchestrator > Start McAfee ePolicy Orchestrator 4.6.0 Console

Default Programs Internet Explorer (64-bit) Internet Explorer Windows Media Player Windows Update Accessories Administrative Tools	Administrator Documents	RV16 p.exe Date modified: 12 ration Size: 43 in Not ii 11:13 Configure refresh
McAfee Policy Orchestrator Value And McAfee ePolicy Orchestrator 4.6.0 Microsoft SQL Server 2005 Startup	Computer Network Control Panel Devices and Printers Administrative Tools Help and Support Run	
• Back		
Search programs and files	Restart 🕨	
灯 Start 📗 🚠 Server Manager 🛛 🎉	E:\epo460l_eng	2 📼 🔗

2. In the login dialog, enter the user name and password you specified during ePO installation.

C ePolicy Orchestrator 4.6.0 (Build: 1029) - Windows Internet Explore	r		_ig)
🚱 💿 💌 🤕 https://jpmhost203/8443/core/brior/SplashScreen.do	P 🔒 🔂 🐓 🗶 🍯 🖷	olcy Orchestrator 4.6.0 (X	
file Edit View Favorites Tools Help			
🕼 + 🖸 / 🗁 🛞 + Bage + Safety + Tgols + 📦 +			
	Log On to ePolicy Orchestrator		
	ePolicy Orchestrator 4.6	C McAfee	
	User name:		
	Passwordt		
	Language: English	2	
	Copyright 2008-2011 McAfee, Inc. All Rights R	eserved. Log.On	
License Type: Evalu	sation Expiration Date: January 11, 2012 Te	o enter a new license, go <u>here</u>	
			× 100% ·

- 🗲 ePolicy Orchestrator 4.6.0 (Build: 1029) - Windows Internet Explorer ser security.1: P 🚬 🔒 💽 🐓 🗶 🍯 ePolicy Orchestrator 4.6.0 (... 🗙 📃 🕥 🔻 🧭 https://pre G Edt Yew Fevor tes Iools Help tile 📾 • Bage • Safety • Tgols • 📦 • O O O O McAlee Time: 10/13/11 11:15:27 AM CEST d 55.5 hboards System Tree Queries & Rep Master Repository View and edit the packages in the Master Rep . Distributed Repositories Create and edit HTTP, FTP, or UNC packa . did not return any results. * C Dristal or ren ns to alter functionality. . Software Man Check in, update. cal Support for Enterprise Products Query did not return any results Event Generated Time McAfee, Inc. Home Page Go to the McAfee home pa
- 3. Select the Software > Extensions command in the ePO 4.6 Console

4. In the next dialog, "Install extension", click "Browse" to select the Solidcore Extension Package SOLIDCORE_5.0.0.ZIP.

ePolicy Orchestrator 4.6.0 (Build: 1)	029) - Windows Int	ernet Explorer					
🕒 💿 💌 💋 https://pmhost203.844	3/core,/orionTab.do?o	ectionald-orion.software.litabl	id-ori 🔎 🖬 🔒	🕒 🕂 🗙 🏉 eholog	Orchestrator 4.6.0 (X		
Bie Edit Vew Fevorites Loois (gelo						
🚰 • 🖾 · 🔤 🛞 • Bage • Safet	y = Tgols = 😧 =						
Server: PRMHOST203 Time: 10/1	3/11 11(15)57 AM	CEST Users admin Los	1.011			06	🛛 🔘 🛡 McAlee
Henu T	Dashi	baarda System Tree	Queries & Report	Policy Catalog			
▼ HcAfee	and the second second						
ePolicy Orchestrator	Name	Management	Requires:	ePO Core 4.6	Modules: eVO License Management Module	- Alternal	ALC: NO
Help Content	Version: Installed by	4.6.0.1029					
NcAfee Agent		2011 11:01:44 AM					
Server							
Shared Components	Name	ePO Migra				Running	Lamous
Third Barty	Version	4.6.0.102	ension				
	Installed by:	2011 111 Select an e	extension (ZIP)	file to install:			
		E:/_MCA	feeWL\Solidco	sre_5.1.1.zip	Browse		
	Names	GuidedCo			ion.	Running	Battors
	Version: Installed bys	4.6.0.102 admin - C					
		2011 11/ CEST					
					OK Cancel		
	Name	InstallHelper	Status	Installed	Hodules: Install Helper	Running	Remove
	Version: Installed by:	4.6.0.1029	Requires:	Core Modules 2.5			
		2011 11:01:44 AM	Details:				
	Name	Notifications	Status	Installed	Modules: Notifications	Running	Lamore
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5. Click "OK" to confirm the summary that follows.

6. Check the list of installed extensions; the "Solidcore Extension Package" you just installed should be displayed.



4.3.3 Installing the license for Solidcore, or McAfee Application Control

Installing the license for Solidcore, or McAfee Application Control

Install the valid Application Control license key. Follow these steps:

1. In the ePO 4.6 console, point to Configuration > Server settings

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- 2. In the left of the next window, select the "Solidcore" menu command and then click "Edit".

3. Enter the valid Application Control license key in the "Edit Solidcore - License information" window and then click "Save".

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You successfully completed installation of the McAfee ePolicy Orchestrator Server. Continue by installing the McAfee Solidcore client.

4.3.4 Installing the McAfee Solidcore clients

Installation of the McAfee Solidcore Agent on the clients is based on the following procedures:

- Adding the Solidcore Agent Deployment Package to the ePO Repository
- · Integrating the client systems into the ePO Console
- Installation of the Solidcore Agent on the clients
- Activating the Solidcore Agent on the clients

4.3.5 Adding the Solidcore Agent Deployment Package to the ePO Repository

Adding the Solidcore Agent Deployment Package to the ePO Repository

Follow these steps to add the Solidcore Agent Deployment Package to the ePO Software Repository:

1. In the ePO 4.6 console, point to the menu Software > Master Repository.

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2. In the "Packages in the Master Repository" window, click "Actions" to select the "Check In Package" action.

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3. Select the "Product or Update (.ZIP)" package type. You can click "Browse..." to select the Solidcore Agent Package.



4. Click Next. The Package Options page appears.

Confirm the following:

- Package Info: Confirm that this is the correct package (correct name, version, type, and language).
- Branch: "Current" must be selected.
- Package signing: This specifies if the package is signed by McAfee or is a third-party package.

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5. Click "Save" to begin checking in the package. The new package appears in Packages in Master Repository list on the Master Repository tab.

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4.3.6 Integrating the client systems into the ePO Console

Integrating the client systems into the ePO Console

Integrate all clients as new systems in the ePO Console before you install the Solidcore Agent on the clients. Follow these steps:

1. In the ePO 4.6 console, point to the menu Systems > System Tree.

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2. The "System Tree" window opens

Configuring McAfee Application Control Commissioning Manual, 07/2011, A5E03658595-01

3. You may assign your clients to different subgroup structures. To create a new subgroup, click on "System Tree Actions" and select the "New Subgroup" command from the menu that is displayed.

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4. Enter a name for the subgroup to be created.

Configuring McAfee Application Control Commissioning Manual, 07/2011, A5E03658595-01

5. This new subgroup is now ready for integration of new systems. To add systems, click on "System Tree Actions" and select the "New Systems" command from the menu that is displayed.

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- 6. Enter the following data in the "New Systems" window:
 - Method for adding new systems:
 Push the agents and add the systems to the current group (...).
 - System to add:
 System names of the system(s) to add
 - Agent version: McAfee Agent for Windows 4.6.0 (current)
 - Installation path: <PROGRAM_FILES_DIR>\McAfee\Common Framework
 - Login information for agent installation: Domain:domain or workgroup name Username:user name Password:password
 - Number of attempts:0 = any
 - Retry interval:
 30 seconds
 - Cancellation after:
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 - Connection setup using: all agent controls

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Target systems:	Separate system names with commas, spaces and/or new lines OSClient1	
System Tree sorting:	Disable System Tree sorting on these systems	
Agent version:	Windows Modifiee Agent for Windows 4.5.0 (Current) T Non-Windows Modifiee Agent for Linux 4.5.0 (Current)	
Credentials for agent installation:	Domain: WORKGROUP User name: Administrator Passnord: Confirm passnord: Confirm pass	
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- 7. Confirm your entries with "OK".

Repeat items 5 to 7 and, if necessary, items 1 to 4 until you integrated all clients in the ePO Console.

4.3.7 Installing the Solidcore Agent on the clients

Installing the Solidcore Agent on the clients

Once you completed integration of all clients in the McAfee ePO Console, you can install the Solidcore Agent on the clients. Follow these steps:

1. In the "System Tree" window, select the "Assigned client tasks" menu.

Then click on the "Actions" button and select "New client task assignment".

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 In the subsequent window, select McAfee Agent under "Product", select Product Deployment under "Task type" and click on "Create new task". In the Tags area, select the "Send this task to all computers" check box.

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- 3. In the subsequent window, assign the new task a name and a message text. Select the following:
 - for "Target platforms"

"Windows"

- for "Products and components"

"Solidcore Agent for Windows 5.1.1.xxx ".

- Then click "Save".

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4. Now select your task under "Task name" and click "Next".

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	Rogue System Detection 4.6.0	Mirror Repositories (Windows only)	AC install	
	Solidoore 5.1.1	Product Cepisyment	Neuer Task	
	VirusScen Enterprise 0.7.0	Product Update	New Task	
	VirusScan Enterprise 0.8.0		Virges (Rever Task)	
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 In this window, you plan the execution of tasks on the client station. Select the "Activated" option as corresponding planning status. Select "Execute immediately" from the selection list for the planning status.

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 Click "Next" to open a window that once again displays the settings you made for this new client task. Check the settings you made. Keep clicking the "Back" button until the window opens in which you can correct the relevant setting. Click "Save" if all settings are OK.

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7. The clients will now start automatic installation of the Solidcore Agent. You can monitor the status in the "System Tree" view.

4.3.8 Activating the Solidcore Agent on the clients

Activating the Solidcore Agent on the clients

After having installed the Solidcore Agent on all clients, activate McAfee Application Control or Solidcore on the clients. However, before you activate the clients you need to run a "solidify" action exactly as in local administration to create the Whitelist. You can initiate this action, namely solidification and activation of Solidcore on the clients, by means of a client task. Follow these steps to create this client task:

1. In the "System Tree" window, select the "Assigned client tasks" menu.

Then click on the "Actions" button and select "New client task assignment".



 In the subsequent dialog, select Solidcore 5.1.1 under "Product" and, under Task-type", SC: Activate and click on "Create new task". In the Tags area, select the "Send this task to all computers" check box.

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	VinucScen Enterprise 0.7.0	SC: Disable		
	VirucScan Enterprise 8.8.0	SC: Enable		
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 Enter the jobs that this new task has to execute. Select "Application Control" for the "Activate" menu command and "Execute initial scan to create the whitelist" to specify that Solidcore Agent has to solidify the client. In the "Restart" field, select "Force restart for this task". Then click "Save".

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theat Task Latalog : New Tas	ik - Solidcore 5.1.1) St. Bodde		
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- Contraction
- 4. Select your task under "Task name" and click "Next".

5. Click "Next" to open the planning window of the new task. In this window, you plan the execution of tasks on the client station. Select the "Activated" option as corresponding planning status. Select "Execute immediately" from the selection list for the planning status.

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- Click "Next" to open a window that once again displays the settings you made for this new client task. Check the settings you made. Keep clicking the "Back" button until the window opens in which you can correct the relevant setting. Click "Save" if all settings are OK.
- 7. The clients will automatically start the scan (solidify) to generate the Whitelist. Application Control is then activated and the client restarted by the Client Solidcore Agent as specified in the menu command "Restart". You can monitor the status in the "System Tree" view.

4.3.9 Additional client tasks

The procedure described above can be employed to create additional client tasks for controlling the Solidcore Agent on the clients. For example, it is possible to disable Solidcore Agent on the client(s)

(SC: Disable (Solidcore 5.1.1)". Proceed exactly as described above and select the corresponding type of client task using the "Type" menu command.

Using McAfee Application Control with PCS 7 and WinCC

4.3 Central administration using McAfee ePolicy Orchestrator

Update installation

5.1 Update installation

You can only run authorized applications on computers that are protected with McAfee Application Control. However, in certain scenarios it is possibly necessary to install new applications on a computer, or install an update or hotfix for authorized application.

Examples of such a scenario:

- Installation of Microsoft Security Updates, or Important Updates within the framework of Patch Management.
- Installation of virus pattern updates, or update of the VirusScan engine.
- Installation of hotfixes for SIMATIC products.
- Installation of additional diagnostics tools.

McAfee Application Control offers various options or procedures for authorizing new applications:

- By means of a defined file (binary file)
- By trusted users
- By trusted manufacturers (certificate)
- From a trusted directory
- Installation programs
- By means of Updater (update programs such as WSUS, or virus scanners)

Most users fall back on the use of an update program, namely an "Updater". An "Updater" is a tool that may be used to modify registered files, or add new files to the "Whitelist". The use of such a tool may be necessary for Windows Updates.

Procedures depend on the way you manage the system.

5.2 Local administration

Local administration

For local administration of McAfee Application Control, the security measures such as Windows Update (Patch Management) or virus scanners that run system updates at cyclic intervals can be enabled using the "finetune.bat" batch file that is available in "C:\Programs\McAfee\Solidcore". This self-explanatory script helps you to enable updates for programs such as WSUS Update Clients.

To view the list of authorized update programs, enter the "sadmin updaters list" command at the McAfee Solidifier command line.



Follows these steps to add one of the available update programs:

 Enter the "finetune.bat" command at the McAfee Solidifier command line. The batch file will list all available updaters:

```
C:\Program Files\McAfee\Solidcore>finetune.bat
Finetune.bat (Fine tunes solidifier for a windows system)
Copyright 2008 McAfee, Inc. All Rights Reserved
Add or remove solidifier customizations for a particular application
finetune.bat add/remove APPLICATION
                              adds solidifier rules
add
                             removes solidifier rules
remove
                              application for which you can add/remove
APPLICATION
                             solidifier rules.
Specify the application indentifier from the list given below.
ANTI VIRUS
===========
A-MCAfee
                             McAfee (8.0,9.0), McAfee virusscan (7.1,10.0),
                             McAfee Enterprise 8.0, Mcafee Total Protection 4.7
Etrust Version 7.0, Etrust Version 7.1,
Etrust Version 6.0, Etrust PestPatrol Anti-Spyware
A-Etrust
                         2005, NAV Corporate Editon (8.1, 10.1,10.2,9.0),
NAV 2004, Norton Removal Tool, Norton 2008
Symantec PcAnywhere (11.5, 12.1)
Symantec Mail Security
Symantec Mail Security for Exchange
A-NAV
A-SPC
A-MSE
A-SMSMSE
A-SEP
                         Symantec Endpoint Protection
                             Sophos Version 5.1.3
A-Sophos
                             Avast Virus Cleaner
AVG Version 7.0
Fsecure2006, 2007, 2008, 2009 Anti Virus
NOD32 Anti Virus Version 2.5
Trend Micro IMSSS, Client server security Agent,
A-Avast
A-AVG
A-Fsecure
A-NOD32
A−TrendMicro
                             OfficeScan, Trend Micro Server Protect
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                             Zone Alarm 6.1
A-ZoneAlarm
                             AVK version
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A-BTD
                         F-Prot AV 3.16f
A-FProt
                        McAfee Group shield for Exchange
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Quick Heal Plus 2007
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A-QHeal
A-QHealPlus
                       Kaspersky Internet Security 7.0
Panda antivirus 2009
A-Ksky
A-Panda
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B-Veritas
B-Brightstor
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SMS 2003 Client
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                            windows Defender (Beta 2) version 1.1.1347.0
windows Messenger 5.1
M-WD
M-WM
M-WA
                             WixAware
                            Netpro Directory Analyzer (NetPro DA)
Netpro Change Auditor for Active Directory (NetPro CAAD)
Install and Run Quest Recovery Manager
M-NDA
M-NCA
M-QRM
                            Install and Run Install and Run St. Bernard UI Expert
Install and Run Install and Run St. Bernard UI Expert
HP Data Protector 5.5
HP Remote Support Software Manager
IEM Director 4.2
M-AD
M-BUI
M-HPACU
M-HPDP
M-HPRSM
                            IBM Director 4.2
I Goldmine Server
VNC Server/Viewer
Win Zip
M-IBMDR
M-IGOLD
M-VNC
M-ZIP
                            Microsoft virtual PC
Microsoft Outlook Express
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M-VPC
M-OutlookExpress
M-Firefox
                            HP Quality Center
Java 2 Runtime
M-HP_QC
M-J2RE
M-DLP
                            McAfee DLP Agent
                                          Symantec LiveUpdate
Install Intel (R) Extreme Graphics 2 Driver
M-SymantecUpdate
M-IntelGD
M-McAfeeAgent
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M-SSLite
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IBM Tivoli Storage Manager Client
MOM Server 2005
Shavlik Metable
                                  Citrix Metaframe Presentation Server 3.0
E-SUSServer
E-WSUSServer
E-TSMServer
E-TSMClient
E-MOMServer
                             Shavlik Netchk
E-Shavlik
                             System Center Operations Manager
System Center Operations Client
E-SCOMServer
E-SCOMClient
E-InstallSCOMClient Install System Center Operations Client
For example, command to add rules for McAfee is:
finetune.bat ADD A-McAfee
Please note that application identifiers are case sensitive.
*****CRITICAL EXES - NOT TO BE ADDED IN FINETUNE.BAT*****
The following exes can't be used as an updater: system.exe,smss.exe,svchost.exe,lsass.exe,
services.exe,winlogon.exe,csrss.exe,notepad.exe,winword.exe,wordpad.exe,ntvdm.exe,userinit.exe,
regedit.exe,explore.exe,Explorer.exe,Msiexec.exe,Cscript.exe,wscript.exe,cmd.exe
```

C:\Program Files\McAfee\Solidcore>

2. To add an updater, enter

C:\Program Files\McAfee\Solidcore\finetune.bat ADD E-WSUSServer . This command adds Windows Server Update Service 2.0 SP1 to the list of updaters on the computer. This means that McAfee Application Control will accept all future changes on the computer which have been made using WSUS 2.0SP1.

3. On completion of this step, you can view the list of authorized updaters (sadmin updaters list) to check whether WSUS has been added.

🦁 McAfee Solidifier-Befehlszeile							
C:\Program Files\McAfee\Solidcore>finetune.bat ADD E-WSUSServer *****ADDING solidifior CUSTOMIZATIONS*****							
Adding solidifier rules for Windows Server Update Services2.0 sp1							
Rules added sucessfully.							
WARNING! Reboot your system before proceeding further as some rules take effect only on system restart.							
C:\Program Files\McAfee\Solidcore>sadmin updaters list -d -t WSUS_Server_1 aspnet_wp.exe -t .NEIfrane_3 ConfigWizards.exe -t drvinst drvinst.exe -p svchost.exe -d -t HP_Quality_Center_1 iexplore.exe -1 QCClient.UI.Core.dll -t J2RE_2 ikernel.exe -p svchost.exe -d -t .NEIfrane_1 mmc.exe -d -t .NEIfrane_1 mmc.exe -t .NEIfrane_4 mscorsvw.exe -t RemoteSessionInstall nsitexec.exe -p winlogon.exe -t SQL_1 msmdsrv.exe -t SQL_3 SQLServerBackup.exe -t SQL_4 SqLWb.exe -t sQL_3 service.exe -t trustedinstaller TrustedInstaller.exe -p services.exe d t WSUS_Server_3 wsusservice.exe C:\Program Files\McAfee\Solidcore>							
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To add the updater for McAfee VirusScan, enter the command C:\Program Files\McAfee\Solidcore\finetune.bat ADD A-McAfee

Update installation

5.2 Local administration