SIEMENS

Configuration 2

SIMATIC

Process Control System PCS 7 Trend Micro Office Scan configuration V7.3 including Patch 2

Commissioning Manual

08/2009 A5E02634981-01

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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 corresponding 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 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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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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Using virus scanners

1.1 Preface

Important information about this whitepaper

The compatibility of the virus scanners recommended for PCS 7 and WinCC has been tested with the systems. The recommended settings for these virus scanners have been chosen to ensure the reliable real time operation of PCS 7 is not adversely affected by the virus scanner software.

These recommendations describe how to discover and make effective as comprehensively as possible the currently known, best possible compromise between the target, virus and damage software, and ensure an as determinable as possible time response of the PCS 7 control system can be achieved in all operating phases.

If you choose different settings for the virus scanner, this could have negative effects on the real-time behavior.

Purpose of this documentation

This documentation describes the recommended settings for virus scanner software in combination with PCS 7 and WinCC following the virus scanner installation.

Required knowledge

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

Validity of the documentation

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

NOTICE

Note that certain virus scanners are only approved for certain product versions.

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

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

1.2 Using virus scanners

1.2 Using virus scanners

1.2.1 Introduction

Using virus scanners in a process control system is only effective when they are part of a comprehensive security concept. A virus scanner alone cannot protect a process control system against hostile attacks.

The security concept PCS 7 / WinCC is available on the Internet under:

http://support.automation.siemens.com

Virus scanners should comply with the requirements described in the security concepts of PCS 7 / WinCC.

1.2.2 Definitions and information

Basic principle

The use of a virus scanner should never inhibit a plant in runtime.

Virus scanners

A virus scanner is a software that detects, blocks or eliminates harmful program routines (computer viruses, worms, etc.).

Scan engine (scanner module)

The scan engine is a component of the virus scanner software that can examine data for harmful software.

Virus signature file (virus pattern file or virus definition file)

This file provides the virus signatures to the scan engine, which uses it to search through data for harmful software.

Virus scan client

The virus scan client is a computer which is examined for viruses and managed by the virus server.

Virus scan server

The virus scan server is a computer which centrally manages virus scan clients, loads virus signature files and deploys them on the virus scan clients.

1.2 Using virus scanners

1.2.3 Principle structure of the virus scanner architecture

A virus scan server receives its virus signatures from the update server of the respective virus scan manufacturer in the Internet or from an upstream virus scan server and manages its virus scan clients.

Remote access to the virus scan server is available via web console.



1.2 Using virus scanners

1.2.4 Using antivirus software

Information for configuration of local virus scanners

Integrated firewall of the virus scanner

The local Windows firewall is used as of PCS 7 V7.0 and configured with the SIMATIC Security Control (SSC) component. The firewalls integrated in the virus scanners are therefore not installed.

- Manual scan (manual scan, on demand scan)
 A manual scan should never be performed on virus scan clients during process mode (runtime). This should take place at regular intervals, e.g. during maintenance, on all computers of the system.
- Automatic scan (auto-protect, on-access scanning) With automatic scanning, it is sufficient to check the incoming data traffic.
- Scheduled scan (planned search, on demand scan) A scheduled scan should never be performed on virus scan clients during process mode (runtime).
- Displaying messages

To ensure that process mode is not inhibited, no messages should be displayed on the virus scan clients.

• Drives

To avoid overlapping scanning of network drives, only local drives are scanned.

• E-mail scan

Scanning of e-mail can be disabled except on the engineering station which receives e-mails.

• Division into groups

Organize your virus scan clients in groups.

• Deployment of the virus signature (pattern update)

The deployment of the virus signatures to the virus scan clients is performed by the upstream virus scan server. Test the virus signatures in a test system before deploying them in process mode to ensure that work correctly. Distribute the virus signatures manually to the respective groups.

• Update the virus scan engine

Do not conduct the virus scan engine update in runtime as these updates will probably require you to restart the virus scan client.

Note on installation

The software installation must be carried out from a virus-free storage location (e.g. from a file server with its own virus scanner or from a certified DVD). During the software installation, automatic changes are often carried out in the operating system. An enabled virus scanner must not obstruct or falsify the software installation.

Configuration

2.1 Introduction

Only Corporate Edition V7.3 of the Trend Micro "OFFICE Scan" virus scanner has been approved for some versions of PCS 7. The settings described below that have changed in comparison to the standard version were tested for PCS7.

Approved virus scanners for the following PCS 7 versions

You can find the latest overview of the virus scanners authorized for a PCS 7 version at the following Internet address: http://support.automation.siemens.com/WW/view/en/10154608

2.2 Integrated firewall

The "Install Enterprise Client Firewall" option can be disabled at the time of installation.

2.3 Manual search

2.3 Manual search

Settings in the "Manual Scan Settings" dialog box

"Scan Target" area

• "Scan mapped drives and shared folders on the network" check box: Disabled

Manual Scan Settings	< ▲
Scan Target	
C All scannable files	
O Use IntelliScan- True file type identification	
m igodot Scan files with the following extensions (use commas to separate entries):	
ACE, ARJ, ASP, BAT, BIN, BOO, CAB, CHM, CLA, CLASS, COM, CSC, DAT, DLL, DOC, D OT, DRV, EML, EXE, GZ, HLP, HTA, HTM, HTML, HTT, INI, JAR, JS, JSE, LNK, LZH, MDB, M PD, MPP, MPT, MSG, MSO, NWS, OCX, OFT, OVL, PDF, PHP, PIF, PL, POT, PPS, PPT, PRC, RAR, REG, RTF, SCR, SHS, SYS, TAR, VBE, VBS, VSD, VSS, VST, VXD, WML, WSF, XLA, ▼	
Scan compressed files:	
Layers to scan: 2 💌	
(7~20 layers are not applicable to Windows NT/2000/XP/Server 2003 clients.)	
✓ Enable <u>Exclusion list</u>	
✓ Scan memory (not applicable to Windows NT/2000/XP/Server 2003 clients)	
🗹 Scan boot area	
🔽 Scan hidden folders	
🗌 Scan for Spyware/Grayware	
Scan mapped drives and shared folders on the network	
	•

Figure 2-1 Dialog box "Manual Scan Settings"

2.4 Real-time Scan

Settings in the "Real-time Scan Settings" dialog box

"Scan Target" area

- Check box "Enable Real-time scan": Enabled
- "Scan Incoming File" check box: Enabled
- Option button "Use IntelliScan Detect true file type": Enabled
- "Scan mapped drives and shared folders on the network" check box: Disabled

Real-time Scan Settings
🗹 Enable Real-time Scan
Scan Target
⊙ Scan incoming file Scan outgoing file Scan incoming and outgoing file
⊖ All scannable files
• Use <u>IntelliScan</u> - all essential file types
$^{ m O}$ Scan files with the following extensions (use commas to separate entries):
."",.ACE,.ARJ,.ASP,.BAT,.BIN,.BOO,.CAB,.CHM,.CLA,.CLASS,.COM,.CSC,.DAT,.DLL,.DOC,.DO T,.DRV,.EML,.EXE,.GZ,.HLP,.HTA,.HTM,.HTML,.HTT,.INI,.JAR,.JS,.JSE,.LNK,.LZH,.MDB,.MPD,.MP P.MPT,.MSG,.MSO,.NWS,.OCX,.OFT,.OVL,.PDF,.PHP,.PIF,.PL,.POT,.PPS,.PPT,.PRC,.RAR,.REG,. RTF,.SCR,.SHS,.SYS,.TAR,.VBE,.VBS,.VSD,.VSS,.VST,.VXD,.WML,.WSF,.XLA,.XLS,.XLT,.XML,.
Scan compressed files:
Layers to scan: 2 💌
(7~20 layers are not applicable to Windows NT/2000/XP/Server 2003 clients.)
✓ Enable Exclusion list
🗹 Scan boot area (not applicable to Windows NT/2000/XP/Server 2003 clients)
🗌 Scan floppy during system shutdown
🗌 Scan for Spyware/Grayware
Scan mapped drives and shared folders on the network

Figure 2-2 "Real-time Scan Settings" dialog box: Figure 1 of 2

"Scan Action" area

- "Display an alert message on the client when a virus is detected" check box: Disabled
- "Use the same action for all types" check box: Enabled; Setting selected for the "All Types" type in the "Action1" column: Pass

🚰 https://s065007tm.rd41.khe.siemens.d	e:4343 - Real-time Scan Setti	ngs - Microsoft Internet Ex 💶 🗵 🗙					
Scan Action		_					
🗖 Display an alert message on the die	nt when a virus is detected						
O Use <u>ActiveAction</u> - recommended action	ons by file type						
O Use customized scan action (Action 2	is only performed if action 1	is not successful)					
Туре	Action 1	Action 2					
Joke	Quarantine 💽						
Trojan	Quarantine 🗾 🗸						
Virus	Clean 🔽	Quarantine					
Test Virus	Pass 🔹						
Spyware/Grayware	Quarantine 🗾						
Packer	Quarantine 🗾						
Generic	Clean 🔽	Pass					
Other	Clean 🔽	Quarantine					
$oldsymbol{eta}$. Use the same action for all types							
Туре	Action 1	Action 2					
All Types	Pass 🔹						
Back up files before cleaning							
Quarantine directory: <a> Computernam	e>						
Specify a URL or a UNC path (e.g., HTTP:// <officescan server=""> or \\<officescan server="">\ofcscan\Virus)</officescan></officescan>							
Save Apply to All Cancel		•					
Cone		🔒 🕑 Trusted sites 🏼 🎢					

Figure 2-3 "Real-time Scan Settings" dialog box: Figure 2 of 2

2.5 Scheduled Scan

The "Enable Scheduled Scan" check box must be disabled during runtime for PC stations operating in process mode (runtime).

• Check box "Enable Scheduled Scan": Disabled

Scheduled Scan Settings	•
🗖 Enable Scheduled Scan	
Schedule	
O Daily	
O Weekly, every Sunday 💌	
Monthly, on day 01 -	
Start time: 00 💌 ; 00 💌	
Scan Target	
O All scannable files	
Use <u>IntelliScan</u> - all essential file types	
C Scan files with the following extensions (use commas to separate entries):	
ACE, ARJ, ASP, BAT, BIN, BOO, CAB, CHM, CLA, CLASS, COM, CSC, DAT, DLL, DOC, DOT, DRV, EML, EXE, GZ, HLP, HTA, HTM, HTML, HTT, INI, JAR, JS, JSE, LNK, LZH, MDB, MPD, MPP, MPT, MSG, MSO, NWS, OCX, OFT, OVL, PDF, PHP, PIF, PL, POT, PPS, PPT, PRC, RAR, REG, RT F, SCR, SHS, SYS, TAR, VBE, VBS, VSD, VSS, VST, VXD, WML, WSF, XLA, XLS, XLT, XML, Z,	
Scan compressed files:	
Layers to scan: 2 💌	
(7~20 layers are not applicable to Windows NT/2000/XP/Server 2003 clients.)	
Enable Exclusion list	
🗹 Scan memory (not applicable to Windows NT/2000/XP/Server 2003 clients)	
🗹 Scan boot area	
Scan for Spyware/Grayware	
	•

Figure 2-4 Dialog box "Scheduled search settings"

2.6 Client Privileges and Settings

2.6 Client Privileges and Settings

Setting in the "Client Privileges and Settings" dialog box

The following areas must be disabled: "Antivirus", "Mail Scan", "Toolbox", "Proxy Settings" and "Update Privileges"

- "Display Mail Scan tab" check box: Disabled
- "Display Toolbox tab" check box: Disabled
- "Allow the client user to configure proxy settings" check box: Disabled
- "Perform 'Update Now!" check box: Disabled
- "Enable scheduled update" check box: Disabled

Client Privileges and Settings
Give selected clients the privilege to modify the following settings:
Antivirus
🗆 Manual Scan settings 👘 Stop Scheduled Scan
Scheduled Scan settings Enable roaming mode
L Real-time Scan settings
Mail Scan
Display mail scan tab
🗹 Install/upgrade POP3 mail scan module
🗹 Real-time POP3 mail scan setting
🗹 Install/upgrade Outlook mail scan module
🕅 Run Outlook folder scan
L Display Toolbox tab
Install/upgrade Wireless Protection Manager
M Run Wireless Protection Manager
Install CheckPoint SecureClient support
Proxy Setting
Allow the client user to configure prove settings
(Disabling this feature will reset the proxy settings to their default)
Update Privileges
Perform "Update Now!"
Enable scheduled update
(select this check box to make the scheduled Update option visible on the client; otherwise, the option will not be visible.)

Figure 2-5 "Client Privileges and Settings" dialog box: Figure 1 of 2

2.6 Client Privileges and Settings

"Update settings" area

- Check box "Enable Scheduled Update": Disabled
- Check box "Forbid program upgrade and hot fix deployment": Enabled

Indate Settings
Develoed from the Trend Mirre Artivelledete Service
Enable scheduled apdate
(Select this check box to allow clients to perform only component updates)
Act as Update Agent (For Windows NT/2000/XP/Server 2003 clients only)
Uninstallation
O Allow the client user to uninstall OfficeScan client
ullet Require a password for the client user to uninstall OfficeScan client
Password:
Confirm Password:
Unloading
$^{ m C}$ Allow the client user to unload OfficeScan client
Require a password for the client user to unload OfficeScan client
Password:
Confirm Password:
Client Security
C High
Restrict access privileges to OfficeScan client files and registries
Retain normal access privileges to OfficeScan client files and registries
Save Apply to All Cancel

Figure 2-6 "Client Privileges and Settings" dialog box: Figure 2 of 2

2.7 Global Client Settings

Settings in the "Global Client Settings" dialog box

The global settings relate to all virus scan clients registered on the virus scan server.

"Alert Settings" area

- "Show the OfficeScan splash screen at startup" check box: Disabled
- Check box "Show the alert icon on the Windows taskbar, if ...": Disabled

TREND MICRO	"OfficeScan" Log Off Help 💽 🤣 TREND
Scan Now	Global Client Settings 🛛 🥑 -
update Now	Configure advanced settings for all OfficeScan clients on your network.
🦂 Cleanup Now	Scan Settings
▶ Summary	Configure Scan Settings for large compressed files.
Outbreak Prevention	Seen the first 100 files in the compressed file
▶ Virus Outbreak Monitor	
▼ Clients	Scan up to 3 • OLE laver(s).
Scan Options	Add Manual Scan to the Windows shortcut menu on clients.
Client Privileges/Settings	Enable Damage Cleanup Services to clean Spyware/Grayware. (running applications only)
Export/Import	🗌 Enable General Spyware/Grayware exclusion list, り
Scan Now	🔽 Enable Critical Spyware/Grayware exclusion list, 🔑
Cleanup Now	Exclude the OfficeScan server database folder from Real-time Scan.
Uninstall Clients	
View Status	
Notify Install	Alert Settings
Remote Install	Show the OfficeScan splash screen at startup.
Verify Connection	Show the alert icon on the Windows taskbar if the virus pattern file is not updated
Global Client Settings	after 14 <u>*</u> day(s).
▶ Cisco NAC	
⊁ Administration	Scheduled Clean Settings
▶ Updates	Enable scheduled clean:
⊁ Logs	Hours: every 1 in hr(s)
▶ Tools	C Days: every 1 r day(s)



2.8 Client Update

Information on updates

Do not perform an update of the virus scan engine in process mode (runtime) because some updates require a reboot of the virus scan client.

Settings in the "Client Update" dialog box

"Update Source" area

• Option button "Standard update source (update from Office Server)": Enabled



Figure 2-8 "Client Update" dialog box: "Update Source" area

2.8 Client Update

"Automatic Deployment" area

- "Deploy to clients immediately after OfficeScan server downloads a new component" check box: Disabled
- "Deploy to clients for OfficeScan clients only and excluding rooming clients when they are restarted)" check box: **Disabled**

🧟 Scan Now	Automatic Deployment 🎯
🐏 Update Now 🎸 Cleanup Now	OfficeScan can perform client updates of all components when certain events occur or by schedule.
	Event-triggered Deployment
Summary	Deploy to clients immediately after the OfficeScan server downloads a new component.
Outbreak Prevention	Indude roaming dient(s)
Virus Outbreak Monitor	
Clients	Deploy to clients for OfficeScan clients only and excluding roaming clients when they are
Cisco NAC	restarted.
Administration	Scan the computer after update (Only for Windows NT/2000/XP/Server 2003 dients excluding
Updates	Perform Cleanup Nov and Scan Nov
Server Update	C Perform Cleanup Now
Client Deployment	
Update Source Automatic Deployment Manual Deployment Update Agent	Deployment Schedule Scheduled deployment (client scheduled update) from the OfficeScan server or a customized update source. You must enable scheduled update on the Client Privileges screen for these
Rollback	settings to take effect.
Logs	O Minutes, every 05 minute(s)
Tools	C Hours, every 01 r hour(s) Daily Time: start 00 00 deploy for a period of 1 hour(s) Weekly, every Sunday



"Manual Deployment" area

• Option button "Manually select clients": Enabled

Scan Now	Manual Deployment				
Update Now	You can manually update all components to clients. Components vill be updated according to the list below.				
	Component	Version Available	Last Update		
0	Antivirus				
 Summary 	Virus pattern	4,299.00	27.02.2007 04:53:40		
Outbreak Prevention Virus Outbreak Monitor	Client program for Windows NT/2000/XP/Server 2003	7.3	04.12.2006 13:45:33		
Clients	Scan engine for Windows NT/2000/XP/Server	8.320.1003	04.12.2006 13:47:32		
Cisco NAC	Client program for Windows 95/98/Me	7.3	04.12.2006 13:45:33		
Administration	Scan engine for Windows 95/98/Me	8,320.1003	04.12.2006 13:47:39		
• Updates	Client program for Windows XP/Server 2003 on x64 architecture	7,3	04.12.2006 13:45:33		
Server Update	Scan engine for Windows XP/Server 2003 on x64 architecture	8.310.1002	04.12.2006 13:47:41		
Client Deployment	Client program for Windows XP/Server 2003 on IA64 architecture	7.3	04.12.2006 13:45:33		
Automatic Deployment	Scan engine for Windows XP/Server 2003 on IA64 architecture	8.310.1002	20.12.2006 15:40:17		
Manual Deployment	Server program	7.3	04.12.2006 13:45:33		
Update Agent	Spyware/Grayware Scan pattern	0.463.00	22.02.2007 10:54:34		
Rollback	Damage Cleanup Services				
▶ Logs	Damage Cleanup template	694	04.12.2006 13:45:33		
Taola	Spyware/Grayware Cleanup pattern	216	04.12.2006 13:45:33		
F 10015	Damage Cleanup engine	5.0.1098	04.12.2006 13:53:51		
	Cisco NAC				
	Cisco Trust Agent	2.0.0	04.12.2006 13:45:42		

Figure 2-10 "Client Update" dialog box: "Manual Deployment" area

2.9 Logs

2.9 Logs

Check the deployment of the virus signatures in the dialog box "Client update logs"

Scan Now	Client Update Logs				0
Update Now	Last Client Update: 27.	02.2007 10:17:09	Display res	ults per pa	ge: 10 💌
🦂 Cleanup Now	Export to CSV Total: 96 records, 14 4 Page 1		Page 1	of 10	Go + H
	Time/Date	Update Components		Progress	Detail
Summary	27.02.2007 10:17:09	Virus pattern : 4.299.00		View	View
Outbreak Prevention	27.02.2007 04:59:10	Virus pattern : 4.293.00		View	View
Virus Outbreak Monitor	27.02.2007 04:59:04	Virus pattern : 4.297.00		View	View
Cliente	26.02.2007 23:35:00	Virus pattern : 4.295.00		View	Viev
Clients	23.02.2007 13:06:24	Virus pattern : 4.291.00		View	View
Cisco NAC	22.02.2007 23:36:51	Virus pattern : 4.289.00		View	View
Administration	22.02.2007 14:46:20	Virus pattern : 4.287.00		View	View
Updates	22.02.2007 08:02:44	Virus pattern : 4,173.00		View	View
	21.02.2007 23:34:54	Virus pattern : 4.285.00		View	View
Server Update	21.02.2007 17:12:23	Virus pattern : 4.283.00		View	View
Client Deployment	Export to CSV	Total: 96 records, M	Page 1	of 10	GO + H
Update Source Automatic Deployment Manual Deployment Update Agent					

Figure 2-11 "Client Update Logs" dialog box