PCS 7 V7.0 英文版安装步骤说明

PCS 7 V7.0 English Version Installation Guideline

User Guide

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摘要 PCS 7 V7.0 英文版安装步骤说明
 关键词 PCS 7 V7.0
 Key Words PCS 7 V7.0

PCS7 V7.0 安装步骤说明

1.安装软件准备:

- 1. PCS 7 Toolset V7.0 1 DVD
- MS Service Packs & Tools 2006.01 (English, German, French, Italian, Spanish) 1 DVD
- 3. Microsoft SQL Server 2005 SP1 for WinCC V6.2 1 DVD
- 4. PCS 7 Toolset V7.0 Update 01/2007 1 CD
- 5. Windows XP Professional Service Pack 2 英文版以及 Microsoft Internet Explorer V6.0 Service Pack 2 英文版 (XP SP2 提供)
- 6. Windows Server 2003 (Standard Edition) Service Pack 1 以及 Internet Explorer V6.0 Service Pack 1 (Windows 2003 server SP1 提供)

※备注:相关补丁、HotFix、安全补丁可以在 MS Service Packs & Tools 2006.01 DVD 中找到。

2.硬件需求:

2.1 推荐硬件需求:

	Clock-pulse rate	Main memory (RAM)	Hard disk
Engineering station	3.4 GHz	2 GB	120 GB
OS single station	3.4 GHz	2 GB	120 GB
OS server	3.4 GHz	2 GB	120 GB
Central archive server	3.4 GHz	2 GB	120 GB
OS client	3.4 GHz	1 GB	120 GB
PCS 7 web server	3.4 GHz	2 GB	120 GB
Maintenance server	3.4 GHz	2 GB	120 GB
BATCH single station	3.4 GHz	2 GB	120 GB
BATCH server	3.4 GHz	2 GB	120 GB
BATCH client	3.4 GHz	1 GB	120 GB
BATCH and OS client	3.4 GHz	2 GB	120 GB
BATCH / PCS 70S / RC on a PC	3.4 GHz	2 GB	120 GB
Route Control single station	3.4 GHz	2 GB	120 GB
Route Control server	3.4 GHz	2 GB	120 GB
Route Control client	3.4 GHz	1 GB	80 GB
PCS 7 BOX	2.0 GHz	2 GB	80 GB

2.2 最低硬件需求:

	Clock-pulse rate	Main memory (RAM)	Hard disk
Engineering station	>= 2 GHz	1 GB	>= 80 GB
OS single station	>= 2 GHz	1 GB	>= 80 GB
OS server	>= 2 GHz	1 GB	>= 80 GB
Central archive server	>= 2 GHz	2 GB	>= 80 GB
OS client	>= 2 GHz	512 MB	>= 80 GB
PCS 7 web server	>= 2 GHz	1 GB	>= 80 GB
Maintenance server	>= 2 GHz	1 GB	>= 80 GB
BATCH single station	>= 2 GHz	2 GB	>= 80 GB
BATCH server	>= 2 GHz	1 GB	>= 80 GB
BATCH client	>= 2 GHz	512 MB	>= 80 GB
BATCH and OS client	>= 2 GHz	1 GB	>= 80 GB
BATCH / PCS 70S / RC on a PC	>= 2 GHz	2 GB	>= 80 GB
Route Control single station	> = 2 GHz	1 GB	>= 80 GB
Route Control server	>= 2 GHz	1 GB	>= 80 GB
Route Control client	>= 2 GHz	512 MB	>= 80 GB
PCS 7 BOX	2,0 GHz	1 GB	80 GB

3.软件安装及设置:

1. 系统分区需求:

为了方便数据备份,应将 PC 站硬盘分为下述分区:

● 用于操作系统和 PCS 7 安装: 约 20 GB

● 用于 PCS 7 项目结构: 超过 15 GB, 可能有几个分区

● 用于备份: 备份到包含原始数据的 PC 或硬盘发生故障时不会受到影响的数据存储介质 上, 如 CD、MOD、乃至网络。

实例

120 GB 硬盘的实例:

盘符	大小 (GB)	驱动器名称	格式化	预期用途
C:	20	SYSTEM	NTFS	操作系统安装和 PCS 7 安装
D:	60	DATA	NTFS	PCS 7 项目数据
		BACKUP	NTFS	备份文件

2. 安装操作系统: Windows XP Professional SP2 英文版、IE6.0 SP2 或 Windows 2003 Server SP1 英文版、IE6.0 SP1。

3. 操作系统与 PCS7 版本兼容列表如下所示

	CS 7 version		I	PCS 7	V6.)	ĸ		PCS 7 V7.x
Windows version		V6.0	V6.0 SP1	V6.0 SP2	V6.0 SP3	V6.1	V6.1 SP1	V7.0
Windows 2000 Professional /	SP3	Х	х	х				
Windows 2000 Server	SP4				x ²⁾	X 3)	X ⁵⁾	
Windows Sonyor 2003						x ^{3, 4)}		
Standard Edition	SP1						x ^{5, 6)}	x ^{6,7)}
Mindawa VD Deafaasianal	SP1					x ³⁾		
Windows XP Professional	SP2						x ^{5, 8)}	x ⁸⁾
Internet Eviderer	V6.0 SP1	x ¹⁾	x ¹⁾	x ¹⁾	x ¹⁾	x ^{1, 4)}	x ^{1,6)}	X ⁶⁾
internet Explorer	V6.0 SP2						x ⁸⁾	X ⁸⁾

注:当前版本的 PCS7 均不支持中文版的操作系统;

- 4. 其它设置:
 - 对 Windows XP Professional
 - Control Panel -> Add or Remove Programs -> Add-Remove Windows Components
 - 激活"Messenger Queuing",如下图



- 对 Windows Server 2003
 - Control Panel -> Add or Remove Programs -> Add-Remove Windows Components

ess D-	Control Panel															• •
tsstality ptons	Rdd Hardware	Add or Remov	Administrative Tools	Automatic Updates	Date and Time	Display	Folder Options	Fonts	Game Controllers	Internet Options	Keyboard	Licensing	Mouse	Network Connections	Phone and Modem	
le Medi	Power Options	Printers and Faxes	Danimal and	CANNAL AN	e crhaded	Counde and	cruch	Overliner	Contam XI	Taskbar and Start Mercu	Windows					
			Windows C You can	omponents add or remo	re components of \	Vindows.		1	in and	upgates	Sort by: Name		×			
			To add o part of th Details	x temove a c le component	omponent, click the will be installed. T	o see what's	A shaded box mea included in a comp	ns that only onent, click				Remove				
			Lonboo	enes Accessories a	nd Utilikies			4.9 MB ·				Size 22.6948				
				Certificate Ser	vices			33.4 MB				Size 504.00MD				
		Applicatio	n Server				×	1		Size 26.33MD						
		Descripti	To add or	remove a compon	ent, click the	check box A shad	ed box means	that only part			Size 4.18M8					
			Total dis	Subgomp	ments of Application	n Server:		a component.	cach brondail.			Sze 0.66M0				
			opace a		oplication Server C IP NET	onsole			0.0 MB			Size 1.31M0				
					nable network CON	+ access			0.0 MB							
					ternet Information S	iervices (IIS)			26.9 MB							
					escage Queung				6.5 MB							
			_	Descriptio	r: Provides guar	anteed mess	sge delivery, efficie	nt soulling, sec	uity, and							
			_	Total disk	space required	31 M	18		Datate 1							
				Space av	allable on disk:	4217.2 M	8		E.com	-						
			_					OK	Cancel				_			

激活"Messenger Queuing",如下图

设置交换文件尺寸:微软 windows 操作系统需要额外磁盘空间用于虚拟内存(一般放在操作系统分区上)。磁盘尺寸推荐设置为系统物理内存的 1.5 到 2 倍。并将硬盘初始和最大尺寸 设成一致。

My Computer -> Properties -> Advanced -> Performance -> Settings Error Reporting:"Disable error reporting"激活(缺省为关闭)

My Network Places -> Properties -> LAN or High-Speed Internet Properties -> File and Printer sharing for Microsoft Networks "激活" Properties -> Maximize date throughput for network applications: "激活" (仅在 Windows Server 2003上有这个设置)

My Computer \rightarrow Properties \rightarrow Advanced \rightarrow Performance



注: 右侧Process Scheduling设置中,除Server、CAS计算机设置为Background service外, 其他设置为Programs

My Computer -> Properties -> System Restore: 关闭系统对所有驱动器的恢复

computer.	on all drives	-
Drive settings To change the status of S space available to System click Settings. Available drives:	ystem Restore or the max Restore on a drive, selec	imum amount of disk at the drive, and then
Drive SYSTEM (C:) Data (D:)	Status Turned off Turned off	Settings

关闭防火墙: Start -> Control Panel -> Windows Firewall,选择"General" tab -> Select the "Off" check box -> Click the "OK" button.

选择菜单命令"开始"(Start) > "设置"(Settings) > "控制面板"(Control Panel) > "管 理工 具"(Administrative Tools) > "计算机管理"(Computer Management) > "本地用户和 组" (Local Users and Groups) 以设置用户。 选择菜单命令"开始"(Start)>"设置"(Settings)>"控制面板"(Control Panel)>"显 示" (Display)。将打开设置显示属性的对话框。 - 打开"设置"(Settings)选项卡,选择屏幕分辨率(对于 PCS 7,建议选择: 1280 x 1024) 。 使用较高的分辨率可更好地利用 PCS 7 软件的显示功能,例如对库中的面板进行在线操 作。请确保已安装了相应的驱动程序,并且使用的是适合的监视器。 - 打开"屏幕保护程序"(Screen Saver)选项卡。 - 在"屏幕保护程序"(Screen saver)区域,从下拉列表框中选择"[无]"([None])。 - 在"监视器电源"(Monitor power)区域,单击"电源..."(Power...) 按钮。 - 在"为家用/办公桌设置电源使用方案"(Settings for Home/Office Desk power scheme) 区域,在所有下拉列表框中选择"从不"(Never)。 - 单击"确定"(OK)关闭对话框。 ※备注:对于多网卡的情况下,两网卡的IP地址必须分配在不同的网段中,否则WinCC服务器 和客户机之间的通讯可能会中断。

注:关于操作系统的详细设置,请参考如下PCS7 Readme文档

- ✓ C:\program files\siemens\information\english\ PCS7 readme
- ✓ Start → SIMATIC → SIMATIC NET → Commissioning PC Stations

3Com 3C	920 Integ	rated Fa	ast Ethern	et Controller (3C.	? 🔀
General	Advanced	Driver	Resources	Power Management	
田田	3Com 3C92 Compatible	20 Integral)	ed Fast Eth	ernet Controller (3C905)	D-TX
Allow	the comput this device	er to turn (to bring th	off this devic	e to save power. out of standby.	
🗌 🗌 0r	nly allow mar	agement	stations to b	ring the computer out o	f standby.
warning cause th you traw this feat the batte	: Allowing th is computer el with this c ary.	is device i to periodio omputer o achine ma	o oring the (cally wakeup rrun it on a l y awaken al	computer out or standby to refresh its network s pattery, you should not inopportune times or c	y may state. If turn on onsume
				ОК	Cancel

5. 安装相关操作系统的补丁、IE6、Hot fix 和安全补丁,均包含在 MS Service Packs & Tools 2006.01 DVD 中。

6. 此时建议备份已安装的操作系统。



7. 安装 Microsoft SQL Server 2005 SP1 for WinCC V6.2。

Setup SQI. Server 2005 (WinCC)	
Microsoft SQL Server 200	5
Setup SQL Server 2005 (Wind	Ω
	Welcome to the installation of SQL2005. Version: 1.0
	It is strongb recommended that you exit all Windows programs before running this Setup program.
	Elick Cancel to gait Setup and then clove any program you have summing. Elick Next to continue with the Setup program.
simatic	WARNING. This program is protected by copyright law and international beaks.
SOPTWARE	Unsufficient reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalities, and will be prosecuted to the maximum entent possible under law.
	< Back New Cancel

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8. 当 SQL SERVER2005 安装完后,然后需要再用到 MS Service Packs & Tools 2006.01 DVD,此次安装 SQL SERVER2005 的一个补丁程序。



9. 此时建议重新启动计算机,然后开始安装 PCS7 V7.0。



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•安装 ES/OS。(根据需要选择安装 PDM 软件包,需要单独软件授权)



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当选择要安装的软件包后,则软件自动开始安装。



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在软件安装完毕后,需要注册 SIMATIC Security Control,点击"Accept"。注册完成后,退出。计算机需要重新启动。然后,插入对应的授权盘,传送授权到硬盘上。

SIMATIC PC	CS 7 V7.0	
Setup Acoba Reader 6.0 Initial Engine Automicin Licence Manager V3.0 Nich Framework V1.1 STEP 7 V64 SPI STEP 7 V64 SPI H62 STEP 7 V70 V60 V70 V60 V70 V60 V70 V60 V70 V60 V70 V60 V70 V61 V70 V61 V70 V61 V70 V61 V70 V61 V7	ALTC Security Control	
00CPM0 V51 ext 5P2 HF1 57PLCSH V52 ext 5P1 57PLCSH V52 ext 5P1 HF1 V4CC V62 V62 V62 V62 V62 F02 ext 5P1 HF1 V4CC V62 5FC V64486470 V70 A5 052 F026470 V70 P65 7FACEFACTE V70 P65 7FACEFACTE V70 SMATIC HT1 7C 50Hours 0.6 4 SMATIC HT1 7C 50Hours 0.6 2005	SQL Server 2005 Registry settings - HREY_LOCAL_MACHINESOFTWAREPolicies/Microsoft/Windows NTVEPC RestrictRemoteClients = 0 the above settings in the operating system are required for a successful operation of the software selected by you. You have the following possibilities:	
PDM V6.0 incl. SP2 HF1 2 PCS 7 System Documentation V7.0 PCS 7 System Documentation BT V7.0 PCS 7 Tools V7.0	Invess Accept and the program we apply there extring the you. When you save these settings they will be carried out later detectly in the operating system by an authorized person. Save Print Accept Help Exit	

- ※ : 注意: 以上各个不同软件包的安装,根据实际的软件选型订货数据分别安装在对应的 IPC 计算机上。参考 PCS 7 Toolset V7.0 DVD "pcs7-readme.chm" 文件。
- ※ 详细的安装参考 PCS 7 手册《Process Control System PCS 7 V7.0 PC Configuration and Authorization》。

另外,若需要安装Web Server和Central Archive Server(CAS)时,则需要安装IIS-Internet Information Services(Control Panel -> Add or Remove Programs -> Add/Remove Windows Components)

注: CAS 和 Storageplus 不可以和 ES、OS 服务器或客户机安装在同一台机器上。

PCS7_Y70_HF (R:)				_ 8
Sie Edit View Favorites Iools Help				A
🕽 Back 🔹 🕤 🔹 🍠 🔎 Search 🏠 Folders 🛛 🎰 🤇	» 🗙 🍤 📑 ·			
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以上软件更新包,一般在 ES 站上仅需要安装 01 和 02 部分;在 OS Single Station、OS Server、OS Client 上仅需要安装 02 部分。

附录一推荐网址

PCS7

西门子(中国)有限公司 工业自动化与驱动技术集团 客户服务与支持中心 网站首页: http://www.ad.siemens.com.cn/Service/ PCS7下载中心: http://www.ad.siemens.com.cn/download/DocList.aspx?TypeId=0&CatFirst=19&CatSecond =20&CatThird=-1 专家推荐精品文档: http://www.ad.siemens.com.cn/Service/recommend.asp

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