Configure and Maintain Your Agilent ChemStation Computer



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CAUTION

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A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

In This Guide...

Agilent-delivered ChemStation PC Bundle systems are delivered with the supported Windows operating system pre-installed and are configured for optimum ChemStation performance. Non-Agilent PC Bundle systems require some manual configuration changes in order to provide optimum performance. This manual describes how to configure a non-Agilent PC Bundle system.

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. B.04.03 or higher

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows XP SP 3 system for use with Agilent ChemStation Rev. B.04.03 or higher. It also covers important settings like Internet Security.

2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows Vista SP1 system for use with Agilent ChemStation Rev. B.04.03 or higher.

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows 7 system for use with Agilent ChemStation Rev. B.04.03 or higher.

4 Security Settings

This chapter summarizes all security settings for LC/MSD, CE/MSD, LC/MSD Trap, GC 7890A, IO Library Suite 15.5, and Agilent Bootp Service.

5 Additional Modifications

These modifications can only be performed using an Administrator user account

6 Maintaining the PC's File System

To help to optimize the performance of your ChemStation system it is important that you schedule routine maintenance (e.g. deleting unnecessary files). The following instructions should be used as a part of your routine maintenance schedule.

Contents

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. B.04.03 or higher 7

Install Windows XP 8 Configure Windows XP Settings 9

2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher 25

Install Windows Vista 26 Configure Windows Vista Settings 27

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher 45

Install Windows 7 46 Configure Windows 7 Settings 47

4 Security Settings 67

Security Settings for LC-MSD and CE-MSD Systems 68 Security Settings for LC-MSD Trap Systems 72 Security Settings for GC 7890A Systems 77 Security Settings for IO Library Suite 15.5 80 Security Settings for Systems using Agilent Bootp Service 84

5 Additional Modifications 85

Install ChemStation 86 Profiles and Group Policies to run ChemStation as PowerUser/User 87

6 Maintaining the PC's File System 89

Scanning and Repairing NTFS Volumes 90 Defragmenting an NTFS Volume 92 Scanning for Viruses 94 Cleaning up Left-Over Temporary Files 95 Performing Backups 97 Contents



1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. B.04.03 or higher

Install Windows XP 8 Configure Windows XP Settings 9

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows XP SP 3 system for use with Agilent ChemStation Rev. B.04.03 or higher. It also covers important settings like Internet Security.



1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. B.04.03 or higher Install Windows XP

Install Windows XP

NOTE

Keep your PC disconnected from the internet until you have installed the appropriate security patches and hot fixes. It is strongly recommended to install the latest security fixes as supported from Agilent and virus definitions prior to connecting to a network.

- 1 Install Windows XP from recovery CD or Windows XP Professional CD-ROM. During the setup of Windows XP provide the Computer Name, Administrator password and network settings. Select to either join an existing domain or set up the system in workgroup mode.
- 2 Check the Windows version by typing **winver** at the **Start > Run** command prompt: If necessary, install Service Pack 3 for XP. Ignore the option to archive current files and reboot the system.
- **3** To secure your system against viruses please install an AntiVirus program. Running AntiVirus programs might influence the behavior and performance of your computer. Agilent ChemStation was tested to run with Symantecs Norton Antivirus. See "Scanning for Viruses" on page 94 for more details.

Configure Windows XP Settings

	Some changes within this document are mandatory for the ChemStation to work properly on a Windows XP system. Some changes will optimize application performance. Other changes will have a graphical or minor impact.
NOTE	To indicate the relative importance of individual settings, each item is categorized as: MUST: These changes must be applied.
	PERFORMANCE: These changes will improve system performance. OPTIONAL: Most of these changes will affect the graphical display of the application.
[OPTIONAL]	 1 General Layout: (Start Menu, right-click > Properties) a Start Menu Tab: Select Classic Start Menu

- 1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows XP Settings
 - b Start Menu > Customize button (See Figure 1 on page 10): In Advanced Start menu options: Disable the following option:
 - Use Personalized Menus

Customize Classic Start Menu	? ×
Start menu You can customize your Start menu by adding or removing items.	Add Remove Adyanced
To remove records of recently accessed documents, programs, and Web sites, click Clear.	
Advanced Start menu options: Expand My Documents Expand My Pictures Expand Network Connections Expand Printers Scroll Programs Show Small Icons in Start menu Use Personalized Menus	
OK	Cancel

Figure 1 Customize Classic Start Menu Dialog

- **c** Enable in the following options:
 - Display Administrative Tools
 - Display Favorites
 - **Display Log Off** (for Workgroup Systems, this option is only available after configuration step 6)
 - Display Run
 - Enable dragging and dropping

- Expand Control Panel
- Expand Network Connections
- Expand Printers
- Scroll Programs
- Show Small Icons in Start menu
- [MUST] 2 Folder Options: (right-click Start > Explore)
 - a Set View to Details
 - **b** Choose Tools > Folder Options
 - c General tab: for Tasks select Use Windows classic folders
 - **d** View tab: Disable the following options:
 - Use simple file sharing
 - Hide extensions for known file types
 - e Enable the following option:
 - Display the full path in the title bar
 - $f\$ Apply these settings to all folders by selecting the Apply to All Folders button
- [MUST] 3 Internet Explorer: (Start > Programs > Internet Explorer) (See Figure 2 on page 11)
 - a Tools > Windows Update: Apply all critical security patches.



Figure 2 Downloading Critical Security Updates

- [MUST] 4 Register Windows XP Professional with Microsoft.
- [MUST] 5 Windows Logon Options: (For Workgroup Systems, only) (Start > Settings > Control Panel > User Accounts)
 - a Select Change the way users log on or off

- **b** Disable Use the Welcome Screen
- c Disable Use Fast User Switching
- [MUST] 6 Power Options: (Start > Settings > Control Panel > Power Options) (See Figure 3 on page 12)
 - $a \hspace{0.1in} \text{Select the Power Schemes tab} \\$
 - **b** From **Power Schemes** drop down box select one of the power schemes
 - c Set the drop down boxes Turn off hard disks and System standby to Never.
 - d $% \left({{\rm{Select}}\,{\rm{the}}\,{\rm{Hibernate}}\,{\rm{tab}};\,{\rm{disable}}\,\,{\rm{Enable}}\,\,{\rm{hibernation}}\,. \right)$

Power Options Properties		? ×
Power Schemes Advance	d Hibernate UPS	
Select the powe this computer. N the selected sch	r scheme with the most appropriate settings for ote that changing the settings below will modify neme.	,
Power schemes		
Home/Office Desk	•	
	<u>S</u> ave As <u>D</u> elete	
Settings for Home/Office	Desk power scheme	
Turn off <u>m</u> onitor:	After 20 mins 💌	
Turn off hard djsks:	Never	
System s <u>t</u> andby:	Never	
	OK Cancel Appl	,

Figure 3 Power Options Properties Dialog, Power Schemes Tab

- [MUST] 7 Local Security Policy: (Start > Programs > Administrative Tools > Local Security Policy)
 - a In the Security Settings tree open Local Policies folder, then Security Options folder
 - **b** Double-click the following policy listed in the right hand panel: **Network** Access: Sharing and security model for local accounts
 - c In the displayed dialog select the following item from the drop down list: Classic - local users authenticate as themselves



[MUST] 8 Disable Automatic Startup of Windows Messenger: (Start > Programs > Windows Messenger > Tools > Options):

- a Select the Preferences tab (See Figure 5 on page 14)
- $b\$ In the General section disable Run Windows Messenger when Windows starts.

 $c\$ Select OK and reboot the system.



Figure 5 Options Dialog, Preferences Tab

[MUST] 9 Regional and Language Options: (Start > Settings > Control Panel > Regional and Language Options) (See Figure 6 on page 15)

Regional and Lar	nguage Opt	ions		? ×
Regional Options	Language	s Advanced		
Standards and This option a dates, and tin	formats fects how so ne.	me programs for	mat numbers, cui	rrencies,
<u>S</u> elect an iter your own form	n to match its nats:	preferences, or	click Customize (to choose
English (Unit	ed States)			istomi <u>z</u> e)
Samples				
Number:	123,456,78	39.00		
Currency:	\$123,456,7	89.00		
Time:	10:09:06 A	М		
Short date:	3/10/2004			
Long date:	Wednesda	y, March 10, 20	04	
Location <u>T</u> o help servi weather, sele Germany	ces provide y ct your prese	ou with local info nt location:	ormation, such as	news and
		OK	Cancel	Apply

a Set Regional Options to English (United States) from the drop down list.

Figure 6 Regional and Language Options Dialog, Regional Options Tab

1

- b If regional format other than English (United States) is used, the following settings are mandatory. The settings can be defined by clicking the Customize button (See Figure 7 on page 16):
 - Decimal symbol = . (point)
 - Digit grouping symbol = , (comma)
 - List separator =, (comma)

Customize Regional Options	? ×
Numbers Currency Time Date	1
Sample Positive: 123,456,789.00	Negative: -123,456,789.00
Decimal symbol:	_
No. of digits after decimal:	2
Digit grouping symbol:	,
Djgit grouping:	123,456,789
Negative sign symbol:	· •
Negative number <u>f</u> ormat:	-1.1
Display leading <u>z</u> eros:	0.7
List separator:	,
Measurement system:	U.S.
01	Cancel Apply

Figure 7 Customize Regional Options Dialog, Numbers Tab

c Language for non-Unicode programs: On the Advanced Tab select English (United States) from the drop down list (See Figure 8 on page 17).

Regional and Language Options	? ×
Regional Options Languages Advanced	
Language for non-Unicode programs This system setting enables non-Unicode programs to display menus and dialogs in their native language. It does not affect Unicode programs, but it does apply to all users of this computer. <u>S</u> elect a language to match the language version of the non-Unicode programs you want to use: English (United States)	
⊆ode page conversion tables 10000 (MAC - Roman) 10001 (MAC - Japanese) 10002 (MAC - Traditional Chinese Big5) 10003 (MAC - Korean) 10004 (MAC - Arabic) 10005 (MAC - Hebrew)]
Default user account settings Apply all settings to the current user account and to the default user profile	
OK Cancel Appl	y –

Figure 8 Regional and Language Options Dialog, Advanced Tab

- [PERFORMANCE] 10 Hard disk Properties: (right-click Start > Explore, right-click on Local Disk (C:) > Properties).
 - a In the General tab, disable Allow Indexing Service to index this disk for fast file searching (See Figure 9 on page 18)
 - $b\,$ Apply the changes by selecting OK.

- c In the selection screen, enable the option Apply changes to C:\, subfolders, and files.
- **d** Disable this setting for all non-removable drives.

NOTE

Microsoft applies special sets of permissions to certain folders, such as the \$NTUninstallKB... folders which relate to Windows HotFixes and Patches. These folder permissions result in error messages when applying new settings for the Indexing Service. Select **Ignore**, when these messages appear.

Local Disk (C:) I	Propertie	25	? ×
General Tool	s Hardv	vare Sharing Security	Quota
-			
Type: File system:	Local Di NTFS	sk	
📕 Used spa	ice:	2,242,945,024 bytes	2.08 GB
📕 Free spac	ce:	6,335,987,712 bytes	5.90 GB
Capacity:	6	8,578,932,736 bytes	7.98 GB
		Drive C	Disk Cleanup
Compress	drive to sa exing Servi	ave disk space ice to index this disk for fa	st file searching
		OK Cancel	Apply

Figure 9 Local Disk (C:) Properties Dialog, General Tab

[PERFORMANCE] 11 Screen layout: (right-click desktop > Properties):

- **a** Please change the following items in the **Display Properties** dialog (See Figure 9 on page 18):
 - Themes tab: Change Windows XP to Windows Classic
 - Desktop tab Customize Desktop button:
 - **General** tab: Enable all 4 desktop icons (My Documents, My Computer, My Network Places, Internet Explorer)
 - General tab: Disable Run Desktop Cleanup Wizard every 60 days
 - Screen Saver tab: Change Screen Saver from Windows XP to none
 - Appearance tab > Effects button: disable all items, except for
 - Hide underlined letters for keyboard navigation....
 - Settings tab: 1280 by 1024 resolution, 32 bit color, 75 Hertz refresh or higher. (Please note: some old monitors may only work with 60 Hz.)



Figure 10 Tabs in Display Properties Dialog

- [PERFORMANCE] 12 System Properties: Start > Settings > Control Panel > System
 - a Advanced tab > Performance > Settings button (See Figure 11 on page 20):
 - Visual Effects tab: Set Visual Effects to Adjust for best performance.
 - Advanced tab > Virtual Memory: For optimum performance use the Change button to adjust the paging file size to a value of 2 to 3 times of the physical RAM of the PC.
 - Data Execution Prevention tab: Enable Turn on DEP for essential Windows programs and services only.

1

Performance Options			? ×
Visual Effects Advance	ed Data Executi	ion Prevention	1
Processor scheduling By default, the comp processor time to run Adjust for best perfo	outer is set to use n your programs, prmance of:	e a greater sha	are of
	🔿 Backgro	und <u>s</u> ervices	
Memory usage By default, the comp memory to run your Adjust for best perfo	outer is set to use programs. prmance of:	e a greater sha	are of
Programs	C Sys <u>t</u> em	cache	
Virtual memory A paging file is an an if it were RAM. Total paging file size	ea on the hard di for all drives:	sk that Windo 384 MB	ws uses as
	ОК	Cancel	Apply

Figure 11 Performance Options Dialog, Advanced Tab

- b Advanced tab > Startup and Recovery > Settings button (See Figure 12 on page 21):
 - System startup section: Change both Time to display... fields from 30 to 3 sec.
 - System failure section: Set Write debugging information to none

Startup and Recovery	? ×
System startup	
Default operating system:	
"Microsoft Windows XP Professional" /fastdetect	•
✓ Time to display list of operating systems: 3 🗧	seconds
Time to display recovery options when needed: 3	seconds
To edit the startup options file manually, click Edit.	it
System failure	
✓ Write an event to the system log	
Send an administrative alert	
Automatically restart	
Write debugging information	
(none)	
Dumo file;	
%SystemRoot%\MEMORY.DMP	
verwrite any existing file	
ОК С	ancel

Figure 12 Startup and Recovery Dialog

- c Advanced tab > Error Reporting button: Select Disable error reporting and But notify me when critical error occur.
- d Remote tab: Disable Allow Remote Assistance invitations to be sent from this computer and Allow users to connect remotely to this computer.
- e System Restore tab: Enable Turn off System Restore on all drives.
- f Reboot the system after enabling this setting.

1

- 1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows XP Settings
 - g Disable hardware acceleration for the video adapter.
 - Right-click desktop > Properties > Settings Tab > Advanced button > Troubleshoot tab
 - Set hardware acceleration to None.

Plug and Play Monitor and Mobile Intel(R) 965 Express Chipset <mark>?</mark> 🗙
General Adapter Monitor Troubleshoot Color Management
Are you having problems with your graphics hardware? These settings can help you troubleshoot display-related problems.
Hardware acceleration
Manually control the level of acceleration and performance supplied by your graphics hardware. Use the Display Troubleshooter to assist you in making the change.
Hardware acceleration: None Full
Disable all accelerations. Use this setting only if your computer frequently stops responding or has other severe problems.
☑ Enable write combining
OK Cancel Apply

- [OPTIONAL] 13 Recycle Bin Properties: (right-click on desktop icon Recycle Bin) Enable the following options (See Figure 13 on page 23):
 - a Use one setting for all drives
 - b Do not move files to the Recycle Bin. Remove files immediately when deleted

c Display delete confirmation dialog

Recycle Bin Properties
Global Local Disk (C:)
○ <u>C</u> onfigure drives independently
Use one setting for all drives
Do not move files to the <u>R</u> ecycle Bin. Remove files immediately when deleted
10%
Maximum size of Recycle Bin (percent of each drive)
Display delete confirmation dialog
OK Cancel <u>A</u> pply

Figure 13 Recycle Bin Properties Dialog, Global Tab

[OPTIONAL] 14 Screen layout: (right-click desktop > arrange icons by) Disable Align to grid.



2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher

Install Windows Vista 26 Configure Windows Vista Settings 27

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows Vista SP1 system for use with Agilent ChemStation Rev. B.04.03 or higher.



2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Install Windows Vista

Install Windows Vista

NOTE

Keep your PC disconnected from the internet until you have installed the appropriate security patches and hot fixes. It's strongly recommended to install the latest security fixes as supported from Agilent Technologies and virus definitions prior to connecting to a network.

- 1 Install Windows Vista from recovery DVD or Windows Vista Business DVD. During the setup of Windows Vista provide the Computer Name, Administrator password and network settings. Select to either join an existing domain or set up the system in workgroup mode.
- 2 Check the Windows version by typing winver at the Start > Start Search command prompt: If necessary, install Service Pack 1 for Vista. Ignore the option to archive current files and reboot the system.
- **3** To secure your system against viruses please install an AntiVirus program. Running AntiVirus programs might influence the behavior and performance of your computer. Agilent ChemStation was tested to run with Symantecs Norton Antivirus. See "Scanning for Viruses" on page 94 for more details.

Configure Windows Vista Settings

	Some changes within this document are mandatory for the ChemStation to work properly on a Windows Vista system. Some changes will optimize application performance. Other changes will have a graphical or minor impact.
NOTE	To indicate the relative importance of individual settings, each item is categorized as:
	MUST: These changes must be applied.
	PERFORMANCE: These changes will improve system performance.
	OPTIONAL: Most of these changes will affect the graphical display of the application.
NOTE	If User Account Control (UAC) is switched on, some configuration steps will require active confirmation to continue.
[OPTIONAL]	1 General Layout: (right-click Start > Properties)
	a Start Menu Tab:
	Select Start Menu
	 In the Privacy section select both items
	b Start Menu Tab > Customize button: In Customize Start Menu dialog: Disable the following option:
	Favorites menu
	c Enable in the following options:
	Computer Display as a link
	Connect To
	 Control Panel: Display as a menu
	Default Programs
	 Documents: Display as a link
	 Enable context menus and dragging and dropping
	 Games: Don't display this item
	• Help

- 2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings
 - Highlight newly installed programs
 - Music: Don't display this item
 - Network
 - · Open submenue when I pause on them with the mouse pointer

Customize Start Menu						
You can customize how links, icons, and menus look and behave on the Start menu.						
 Computer Display as a link Display as a menu Don't display this item Connect To Control Panel Display as a link Display as a link Display as a menu Don't display this item Don't display this item Default Programs Documents 						
Display as a link						
Start menu size						
Number of recent programs to display: 9						
Use <u>D</u> efault Settings Show on Start menu						
✓ Internet link: Internet Explorer						
✓ E-mail link: Windows Mail ▼						
OK Cancel						

Figure 14 'Customize Start Menu' Dialog

- Personal folder: Display as a link
- Pictures: Display as a link

- Printers
- Run command
- Search communications
- Search favorites and history
- Search Files: Search this user's files
- Search programs
- Sort All Programs menu by name
- System administrative tools: Display on the All Programs menu and in the Start menu
- Use large icons
- [MUST] 2 Folder Options: (right-click Start > Explore)
 - a Set View to Details
 - b Choose Organize > Layout
 - Enable Menu Bar
 - c Choose Tools > Folder Options
 - General tab: for Tasks select Use Windows classic folders
 - View tab: Disable the option: Hide extensions for known file types; Enable the option: Display the full path in the title bar (classic folders only)
 - d Apply these settings to all folders by selecting the Apply to Folders button

- 2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings
 - [MUST] 3 Got to Start > All Programs > Internet Explorer. Perform Windows Update via Tools > Windows Update to check for updates and apply all critical security patches (see Figure 15 on page 30).

ľ	👔 🔻 🔝 👻 🖶 🔻 🔂 Page 🕶 🎯 '	Tools 🔻				
	Delete Browsing History					
	Diagnose Connection Problems					
	Pop-up Blocker	+				
	Phishing Filter					
	Manage Add-ons	+				
	Work Offline					
	Windows Update					
	Full Screen	F11				
	Menu Bar					
	Toolbars	+				
	Sun Java Console					
	Internet Options					

Figure 15 Downloading Critical Security Updates

- [MUST] 4 Register Windows Vista with Microsoft.
- [MUST] 5 Windows Logon Options: (Start > search for gpedit.msc)
 - a Navigate to Local Computer Policy > Computer Configuration > Administrative Templates > System Logon (see Figure 16 on page 31
 - Enable Hide entry points for Fast User Switching and Always use classic logon

How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher 2

Configure Windows Vista Settings



Figure 16 Local Group Policy Editor Dialog

- [MUST] 6 Power Options: Start > Control Panel > Power Options (see Figure 17 on page 32)
 - a Enable power plan High performance
 - **b** Click Change Plan settings (see Figure 18 on page 33)
 - c Set the option Put the computer to sleep to Never
 - d Click Change advanced power settings (see Figure 19 on page 34) Change Turn off hard disk after Settings (Minutes) to Never (0 Minutes)

Control Panel
 Power Options Q 👻 😽 🛛 Search File Edit View Tools Help 2 Require a password on wakeup Select a power plan Choose what the power button Power plans can help you maximize your computer's performance or conserve energy. Make a plan does active by selecting it, or choose a plan and customize it by changing its power settings. Tell me more Create a power plan about power plans 🥵 Choose when to turn off the Preferred plans display Balanced Energy savings: 000 Change when the computer Performance: 000 Change plan settings sleeps Power saver Energy savings: 000000 Change plan settings Performance: 00 See also High performance Energy savings: 00 Performance: 000000 Change plan settings Personalization





How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher 2

Configure Windows Vista Settings

🚱 💬 🗟 🕨 Control Panel 🕨 Power Options 🕨 Edit Plan Settings 📼 🍫 Search 🔎
<u>Eile E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp
Change settings for the plan: High performance Choose the sleep and display settings that you want your computer to use.
Turn off the display: 15 minutes
Put the computer to sleep: Never
Change advanced power settings
Restore default settings for this plan
Save changes Cancel

Figure 18 Changing Settings for the Plan: High Performance

Power Options							
Advanced settings							
Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.							
High performance [Active]							
 Additional settings ▲ Require a password on wakeup 							
 ⊟ Hard disk □ Turn off hard disk after □ Setting: Never 							
Wireless Adapter Settings							
Power buttons and lid							
<u>R</u> estore plan defaults							
OK Cancel Apply							

Figure 19 Power Options

- [MUST] 7 Local Security Policy: (Start > Programs > Administrative Tools > Local Security Policy)
 - a Navigate to Security Settings > Local Policies > Security Options
 - **b** Double-click the following policy listed in the right hand panel: **Network** Access: Sharing and security model for local accounts

🚡 Local Security Policy							
Eile Action View Help							
Security Settings Account Policies Count Policies Count Policy Security Options Security Options Security Options Public Key Policies Software Restriction Policies Software Restriction Policies Descurity Policies on Local C	Policy Interactive logon: Prompt user to change password before expiration Interactive logon: Require Domain Controller authentication to unlock work Interactive logon: Require smart card Interactive logon: Smart card removal behavior Microsoft network client: Digitally sign communications (always) Microsoft network client: Send unencrypted password to third-party SMB se Microsoft network client: Send unencrypted password to third-party SMB se Microsoft network server: Digitally sign communications (always) Network access: D not allow anonymous enumeration of SAM accounts Network access: Let Everyone permissions apply to anonymous users Network access: Remotely accessible registry paths Network access: Remotely accessible registry paths Network access: Remotely accessible registry paths Network access: Shares that can be accessed anonymously Network access: Shares that can be accessed anonymously Network access: Shares that can be accessed anonymously Network access: Shares that can	Security Setting 14 days Disabled Disabled No Action Disabled Enabled Disabled	E				
<	Retwork security: Do not store LAN Manager hash value on next password c	Enabled	-				

c In the displayed dialog select the following item from the drop down list: Classical - local users authenticate as themselves

Figure 20 Local Security Policy Dialog

[MUST] 8 Regional and Language Options: (Start > Control Panel > Regional and Language Options) (see Figure 21 on page 36)

- 2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings
 - **a** Regional options should be set to **English (United States)** from the drop down list.

🔗 Regior	nal and Lai	nguage Options					×
Formats	Location	Keyboards and Lange	uages	Admir	istrative		
To cha time, se	To change the way your computer displays numbers, currencies, dates, and time, select an entry from the format list.						
Curren	<u>C</u> urrent format:						_
Englis	h (United S	States)				•	
Exampl	Examples of how data is displayed using this format:						
Numbe	er: 12	3,456,789.00					
Curren	cy: \$1	23,456,789.00					
Time:	3:2	4:39 PM					
Short d	ate: 5/2	26/2008					
Long d	ate: M	onday, May 26, 2008					
					Customize this	format	
For ad	For additional formats, keyboards, and tools, go to the Microsoft website.						
			(ОК	Cancel		ly

Figure 21 Regional and Language Options Dialog
- b If regional format other than English (United States) is used, the following settings are mandatory. The settings can be defined by clicking the Customize this format button (See Figure 22 on page 37):
 - Decimal symbol = . (point)
 - Digit grouping symbol = , (comma)
 - List separator =, (comma)

🔗 Customize Regional Options	E		
Numbers Currency Time Date			
Example Positive: 123,456,789.00	Negative: -123,456,789.00		
Decimal symbol:			
<u>N</u> o. of digits after decimal:	2 🔹		
Digit grouping symbol:	, v		
Digit grouping:	123,456,789 🔻		
N <u>eg</u> ative sign symbol:	- •		
Nega <u>t</u> ive number format:	-1.1 🔹		
Display leading zeros:	0.7 🔹		
List separator:	r –		
Measurement system:	U.S. 👻		
Standard digits:	0123456789 🗸		
<u>U</u> se native digits:	Never		
Click Reset to restore the system default settings for <u>Reset</u>			
(OK Cancel Apply		

Figure 22 Customize Regional Options Dialog

- 2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings
 - c Language for non-Unicode programs: On the Administrative Tab click Change system locale.... From the drop down list, select English (United States) (see Figure 23 on page 38).

🔗 Regional and Language Options 🧮					
Formats Location Keyboards and Languages Administrative	_				
To change the way your computer displays numbers, currencies, dates, and time, select an entry from the format list.					
Current format:					
English (United States)					
Examples of how data is displayed using this format:					
Number: 123,456,789.00					
Currency: \$123,456,789.00					
Time: 3:24:39 PM					
Short date: 5/26/2008					
Long date: Monday, May 26, 2008					
C <u>u</u> stomize this format					
For additional formats, keyboards, and tools, go to the Microsoft website.					
OK Cancel Apply]				

Figure 23 Regional and Language Options Dialog, Administrative Tab

[MUST] 9 Power Management for network devices (From Start right-click Network > Properties > Manage network connections right-click Local Area Connection > Properties > Configure) **a** On the **Power Management** tab, disable all items (see Figure 24 on page 39).

Intel(R) 82566DM Gigabit	Network Connection F	Properties 🔋 💌
VLANs	Driver	Details
General Link Sp	eed Advanced	Power Management
Power S	aver and Wake on LAN (Options
Power Saver Options:		
Reduce link speed of	uring standby	
Wake on LAN:		
Wake on Directed P	acket	
Wake on Link	let let	
Reduce link speed durin	g standby	
Sets the adapter to ne to save power while to NOTES: • Wake on	gotiate the lowest possi he computer is in standb Magic Packet or Wake or	ible speed setting by mode.
must be e	nabled for this option to	function.
Wake on	Magic Packet from powe	er off state has 🔍 🔻
		OK Cancel

Figure 24 Network Connection Properties Dialog, Power Management Tab

[PERFORMANCE] 10 Screen layout: (right-click on desktop > Personalize):

- a Click on Window Color and Appearance
- **b** Click on Open classic appearance properties for more color option.

- 2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings
 - c Press Effects. Disable all three items.

Effects					
Use the following method to smooth edges of screen fonts:					
ClearType 👻					
Show shadows under menus					
Show window contents while dragging					
OK Cancel					

Figure 25 Effects Dialog

- [PERFORMANCE] 11 System Properties: Start > Control Panel > System: click Advanced system settings.
 - a On the Advanced tab > Performance hit the Settings button
 - Advanced tab > Virtual Memory: For optimum performance use the Change button to adjust the paging file size to a value of 2 to 3 times of the physical RAM on the PC.
 - Data Execution Prevention tab: Enable Turn on DEP for essential Windows programs and services only.
 - **b** Advanced tab > Startup and Recovery > Settings button (see Figure 26 on page 41):
 - System startup section: Change both Time to display ... fields from 30 to 3 sec.
 - System failure section: Set Write debugging information to none

How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings

Startup and Recovery
System startup Default operating <u>system</u> : <u>Microsoft Windows Vista</u> <u>Ime to display list of operating systems</u> : <u>Time to display recovery options when needed</u> : <u>Time to display recovery options when needed</u> : <u>Seconds</u>
System failure Image: System failure Image: System log Image: System log
(none)
Dump file: %SystemRoot%\MEMORY.DMP
✓ Overwrite any existing file
OK Cancel

Figure 26 Startup and Recovery Dialog

- c Remote tab
 - In the Remote Assistance section, disable Allow Remote Assistance connections to this computer.
 - In the Remote Desktop section, enable Don't allow connections to this computer.

2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings

Remote Assistance	entrentien tiern ten ten pr
Allow Remote Assistance connections to this	
	computer
	- compately
What happens when I enable Remote Assistance	e?
	Advanced
Remote Desktop	
Citale and a second data and a function of the second seco	
Click an option, and then specify who can conne	ect, ir needed.
Ont allow connections to this computer	
 Allow connections from computers running ar Remote Desktop (less secure) 	ny version <mark>o</mark> f
Allow connections only from computers running Desktop with <u>N</u> etwork Level Authentication (ng Remote (more secure)
Help me choose	Select Users

Figure 27 System Properties Dialog

12 Welcome Center (Start > search for 'gpedit.msc')

- Navigate to Local Computer Policy > Computer Configuration > Administrative Templates > System > Logon (see Figure 28 on page 43)
- Enable Don't display the Getting Started welcome screen at logon.

How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher 2

Configure Windows Vista Settings



Figure 28 Local Group Policy Editor Dialog

[OPTIONAL]

- **a** Recycle Bin Properties: (right-click on desktop icon Recycle Bin) Enable the following options (See Figure 13 on page 23):
 - **Custom size**; select a size corresponding to approximately 10% of the complete disk space for the drive
 - Check Display delete confirmation dialog

2 How to configure Windows Vista SP1 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows Vista Settings

Recycle Bin Properties				
General				
Recycle Bin Location Space Available				
Data (D:) 192 GB				
🎉 Programs (C:) 40.5 GB				
Settings for selected location				
<u>Custom size:</u> Maximum size (MB): 11894				
Do not move files to the <u>Recycle Bin. Remove files</u> immediately when deleted.				
Display delete confirmation dialog				

b Repeat these steps for all drives of your computer.

Figure 29 Recycle Bin Properties Dialog, General Tab

[OPTIONAL] 13 Screen layout: (right-click on desktop > View) Disable Align to grid.



Configure and Maintain your Agilent ChemStation

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher

Install Windows 7 46 Configure Windows 7 Settings 47

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows 7 system for use with Agilent ChemStation Rev. B.04.03 or higher.



3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Install Windows 7

Install Windows 7

NOTE

Keep your PC disconnected from the internet until you have installed the appropriate security patches and hot fixes. It's strongly recommended to install the latest security fixes as supported from Agilent Technologies and virus definitions prior to connecting to a network.

- 1 Install Windows 7 from recovery DVD or Windows 7 Professional or Enterprise DVD. During the setup of Windows 7 provide the Computer Name, Administrator password and network settings. Select to either join an existing domain or set up the system in workgroup mode.
- **2** To secure your system against viruses please install an AntiVirus program. Running AntiVirus programs might influence the behavior and performance of your computer. Agilent ChemStation was tested to run with Symantecs Norton Antivirus. See "Scanning for Viruses" on page 94 for more details.

Configure Windows 7 Settings

	Some changes within this document are mandatory for the ChemStation to work properly on a Windows 7 system. Some changes will optimize application performance. Other changes will have a graphical or minor impact.		
NOTE	To indicate the relative importance of individual settings, each item is categorized as:		
NOTE	MUST: These changes must be applied.		
	PERFORMANCE: These changes will improve system performance.		
	OPTIONAL: Most of these changes will affect the graphical display of the application.		
NOTE	If User Account Control (UAC) is switched on, some configuration steps will require active confirmation to continue.		
[OPTIONAL]	 1 General Layout: (right-click Start > Properties) a Start Menu Tab: In the Privacy section select both items b Start Menu Tab > Customize button: In Customize Start Menu dialog: Disable the following option: Favorites menu Enable in the following options: Computer Display as a link Connect To Control Panel: Display as a menu Default Programs Devices and Printers Documents: Display as a link Enable context menus and dragging and dropping 		
	 Enable context menus and dragging and dropping Games: Don't display this item 		
	• Help		
	 Highlight newly installed programs 		

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher

Configure Windows 7 Settings

Customize Start Menu	×
You can customize how links, icons, and menus look and behave on Start menu.	the
 Control Panel Display as a link Display as a menu Don't display this item Default Programs Devices and Printers Documents Display as a link Display as a menu Don't display this item Downloads Display as a link Display as a link Display as a menu Don't display this item Downloads Display as a menu Don't display this item Enable context menus and dragging and dropping Favorites menu Games 	
Start menu size <u>Number of recent programs to display:</u> 10 Number of recent items to display in <u>Jump Lists</u> 10	
Use Default Settings OK Cano	el

Figure 30 Start Menu configuration

- Music: Don't display this item
- Network
- Open submenue when I pause on them with the mouse pointer
- Personal folder: **Display as a link**
- Pictures: Display as a link
- Run command
- Search other files and libraries Search public folders
- Search programs and Control Panel

- Sort All Programs menu by name
- System administrative tools: Display on the All Programs menu and in the Start menu
- Use large icons
- [MUST] 2 Folder Options: (right-click Start > Open Windows Explorer)
 - a Choose Organize > Layout
 - Enable Menu Bar
 - Enable Navigation Panel
 - **b** Set View to Details
 - c Choose Tools > Folder Options
 - View tab:

Disable the option: Hide extensions for known file types;

Enable the option: Display the full path in the title bar (classic theme only)

- d Apply these settings to all folders by selecting the Apply to Folders button
- [MUST] 3 Go to Start > Control Panel > Windows Update. Check for updates and apply all critical security patches.



[MUST] 4 Register Windows 7 with Microsoft.

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows 7 Settings

[MUST] 5 Select Change Settings. Select Change Settings > Set the Important updates selection to: Never check for updates. Deselect the other update options.

Control Panel\All Control Panel Items\Windows Update\Change settings					
0	0-	<u></u>	- All Con	trol Panel Items 👻 Windows Update 🔹 Change settings 🔹 😴 Search Control Panel	2
Eile	<u>E</u> dit	<u>V</u> iew	<u>T</u> ools	Нер	
			Choose When yes	e how Windows can install updates rour computer is online, Windows can automatically check for important updates and install them using these s. When new updates are available, you can also install them before shutting down the computer.	
			How doe	es automatic updating help me?	
			Importa	ant updates	
			\mathbf{x}	Never check for updates (not recommended)	
				Install <u>n</u> ew updates: Every day <u>at</u> 3:00 AM	
	Recommended updates				
Give me recommended updates the same way I receive important updates					
			Who ca	in install updates	
				Allow all users to install updates on this computer	
			Note: W stateme	Vindows Update might update itself automatically first when checking for other updates. Read our <u>privacy</u> ent online.	
				OK Cancel	

Figure 31 Windows Update Settings

Close the Update screen

[MUST] 6 Go to Start > Control Panel > Administrative Tools. Select Services. Right click on the Desktop Window Manager Session Manager. In the context menu select Properties. Set the startup type to Disabled.



Figure 32 Disable Desktop Service

Confirm by clicking \mathbf{OK} and close the $\mathbf{Services}$ window. Close $\mathbf{Administrative}$ Tools.

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows 7 Settings

[MUST] 7 Go to Start > Control Panel > Indexing Options. Click the Modify button. Deselect all drives and locations. Click OK. Click Close.

lndexing Options	83	& Indexed Locations	
1 items indexed Indexing complete. Index these locations:		Change selected locations DATA (D:) Office Files Dr GRAMS (C:)	
Included Locations	Exclude	Summary of selected locations	
Modify Rdvanced How does indexing affect searches? Troubleshoot search and indexing	Close	Included Locations	Exclude OK Cancel

Figure 33 Disable file indexing

[MUST] 8 Navigate to Local Computer Policy > Computer Configuration > Administrative Templates > System > Logon. Enable Hide entry points for Fast User Switching and Always use classic logon.

[MUST] 9 Power Options: Start > Control Panel > Power Options. See

- a Enable power plan High performance (Show additional plans)
- b Click Change Plan settings (see Figure F on page 28)
- c Set the option Put the computer to sleep to Never
- d Click Change advanced power settings (see Figure 19 on page 29) Open the nodes for Hard disk, Turn off hard disk after and set the Minutes to 0 (=Never). Click OK
- e Save the changes.



Figure 34 Selecting a power plan

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher

Configure Windows 7 Settings

💫 Edit Plan Settings					
🕞 🕞 🗢 Power Options 🔹 Edit Plan Settings 🔹 🔹 Search Control Panel	2				
<u>File E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp					
Change settings for the plan: High performance Choose the sleep and display settings that you want your computer to use.					
Urn off the display: 1 hour					
Put the computer to sleep: Never					
Change advanced power settings					
Restore default settings for this plan					
Save changes Can	icel				

Figure 35 Edit Plan Settings: High Performance

How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows 7 Settings

😼 Power Options	? ×
Advanced settings	
Select the power plan that you want to customize, and then choose settings that reflect how you want your computer to manage power.	
 □ High performance □ Require a password on wakeup Setting: Yes □ Hard disk □ Turn off hard disk after Setting (Minutes): Never □ Desktop background settings □ Wireless Adapter Settings □ Sleep 	
I I I USB settings	
OK Cancel Appl	у

Figure 36 Power Options

- [MUST] 10 Local Security Policy: (Start > Control Panel > Administrative Tools > Local Security Policy)
 - a Navigate to Security Settings > Local Policies > Security Options
 - **b** Double-click the following policy listed in the right hand panel: Network Access: Sharing and security model for local accounts

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher

Configure Windows 7 Settings



c In the displayed dialog select the following item from the drop down list: Classical - local users authenticate as themselves

Figure 37 Local Security Policy Dialog: Network

[MUST] 11 Regional and Language Options: (Start > Control Panel > Regional and Language Options) **a** Regional options should be set to **English (United States)** from the drop down list.

🧬 Re	egion and Language		×
For	mats Location Keybo	ards and Languages Administrative	
E	ormat:		
	English (United States)		
Γ	Date and time format	s	
	<u>S</u> hort date:	M/d/yyyy	
	<u>L</u> ong date:	dddd, MMMM dd, yyyy	
	S <u>h</u> ort time:	h:mm tt	
	L <u>o</u> ng time:	h:mm:ss tt	
	First day of <u>w</u> eek:	Sunday	
	What does the notati	on mean?	
Г	Examples		
	Short date:	8/5/2010	
	Long date:	Thursday, August 05, 2010	
	Short time:	3:43 PM	
	Long time:	3:43:36 PM	
		Additional settings	
G	o online to learn abou	ut changing languages and regional formats	
		OK Cancel Apply	

Figure 38 Regional and Language Options Dialog

- **3** How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows 7 Settings
 - **b** If regional format other than **English (United States)** is used, the following settings are mandatory. The settings can be defined by clicking the **Customize this format** button:
 - Decimal symbol = . (point)
 - Digit grouping symbol = , (comma)
 - List separator =, (comma)

🦸 Customize Format	×
Numbers Currency Time Date	
Example Positive: 123,456,789.00	Negative: -123,456,789.00
Decimal symbol:	
<u>N</u> o. of digits after decimal:	2
Digit grouping symbol:	,
Digit grouping:	123,456,789
N <u>eg</u> ative sign symbol:	· •
Nega <u>t</u> ive number format:	-1.1
Dis <u>p</u> lay leading zeros:	0.7
List separator:	,
Measurement system:	U.S.
Standard digits:	0123456789
<u>U</u> se native digits:	Never
Click Reset to restore the system defau numbers, currency, time, and date.	It settings for <u>R</u> eset
[OK Cancel Apply



c Language for non-Unicode programs: On the Administrative Tab click Change system locale.... From the drop down list, select English (United States)

🧬 Region and Language	×
Formats Location Keyboards and Languages Administrative	1
Welcome screen and new user accounts	
View and copy your international settings to the welcome screen, system accounts and new user accounts.	
<u>Teil me more about these accounts</u>	
Language for non-Unicode programs	
This setting (system locale) controls the language used when displaying text in programs that do not support Unicode. Current language for non-Unicode programs: English (United States)	Region and Language Settings
🚱 Change system locale	that do not support Unicode. This setting affects all user accounts on the
What is system locale?	computer.
	Current system locale:
	English (United States)
	OK Cancel
OK Cancel Apply	

Figure 40 Regional and Language Options Dialog, AdministrativeTab

[MUST] 12 Power Management for network devices (From Start > Control Panel > Network and Sharing Center) Select Change adapter settings. Right-click Local Area Connection > Properties > Configure)

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows 7 Settings

- Intel(R) 82566DM Gigabit Network Connection Properties

 General
 Advanced
 Driver
 Details
 Power Management

 Intel(R) 82566DM Gigabit Network Connection

 Intel(R) 82566DM Gigabit Network Connection

 Allow the computer to tum off this device to save power

 Allow the computer to tum off this device to save power

 Only allow a magic packet to wake the computer

 Waming: If this is a laptop computer and you run it using battery power.

 allowing the network adapter to wake the computer could drain the battery more quickly. It might also cause the laptop to become very hot if it wakes up while packed in a camying case.

 OK
 Cancel
- a On the Power Management tab, disable all items

- [PERFORMANCE] 13 Screen layout: (right-click on desktop > Personalize):
 - a Click on Window Color and Appearance
 - **b** Click on Open classic appearance properties for more color option.

c Press Effects. Disable all three items.

Effects	×
Use the following method to smooth edges of screen fonts:	
ClearType	
Show shadows under menus	
Show window contents while dragging	
ОК	Cancel

Figure 41 Effects Dialog

- [PERFORMANCE] 14 System Properties: Start > Control Panel > System: click Advanced system settings.
 - a $% \left({{\rm{On}} {\rm{ the}} {\rm{ Advanced tab}} \right)$ > Performance hit the Settings button
 - Advanced tab > Virtual Memory: For optimum performance use the Change button to adjust the paging file size to a value of 2 to 3 times of the physical RAM on the PC.
 - Data Execution Prevention tab: Enable Turn on DEP for essential Windows programs and services only.

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows 7 Settings

- **b** Advanced > Startup and Recovery > Settings button:
 - System startup section: Change both Time to display ... fields from 30 to 3 sec.
 - System failure section: Set Write debugging information to none

Startup and Recovery	×
System startup Default operating system: Windows 7 Time to display list of operating systems: 3 seconds Time to display recovery options when needed: 30 seconds	
System failure System failure Write an event to the system log Automatically restarti Write debugging information	
(none) Dump file; %SystemRoot%/MEMORY.DMP Image: Overwrite any existing file	
OK Cancel	

Figure 42 Startup and Recovery Dialog

- c Remote tab
 - In the Remote Assistance section, disable Allow Remote Assistance connections to this computer.
 - In the Remote Desktop section, enable Don't allow connections to this computer.

System Properties	×
Computer Name Hardware Advanced System Protection Remote	_
Remote Assistance	
Allow Remote Assistance connections to this computer	
What happens when I enable Remote Assistance?	
Ad <u>v</u> anced	
Remote Desktop	
Click an option, and then specify who can connect, if needed.	
Don't allow connections to this computer	
 Allow connections from computers running any version of Remote Desktop (less secure) 	
 Allow connections only from computers running Remote Desktop with <u>N</u>etwork Level Authentication (more secure) 	
Help me choose Select Users	
OK Cancel <u>A</u> pply	

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher

Configure Windows 7 Settings

15 Welcome Center (Start > search for 'gpedit.msc')

- Navigate to Local Computer Policy > Computer Configuration > Administrative Templates > System > Logon
- Enable Don't display the Getting Started welcome screen at logon.



Figure 43 Local Group Policy Editor Dialog

[OPTIONAL]

- **16** Recycle Bin Properties: (right-click on desktop icon Recycle Bin) Enable the following options
 - Custom size; select a size corresponding to approximately 10% of the complete disk space for the drive
 - Check Display delete confirmation dialog

🗑 Recycle Bin Properties	×
General	
Recycle Bin Location Space Available	
PROGRAMS (C:) 19.5 GB	
Settings for selected location	
Custom size: Maximum size (MB): 2000	
O Don't move files to the <u>Recycle Bin</u> . Remove files immediately when deleted.	
Display delete confirmation dialog	
OK Cancel <u>A</u> pply	
	_

a Repeat these steps for all drives of your computer.

[OPTIONAL] 17 Screen layout: (right-click on desktop > View). Disable Align Icons to grid.

3 How to configure Windows 7 for use with Agilent ChemStation Rev. B.04.03 or higher Configure Windows 7 Settings



4 Security Settings

Security Settings for LC-MSD and CE-MSD Systems68Security Settings for LC-MSD Trap Systems72Security Settings for GC 7890A Systems77Security Settings for IO Library Suite 15.580Security Settings for Systems using Agilent Bootp Service84

This chapter summarizes all security settings for LC/MSD, CE/MSD, LC/MSD Trap, GC 7890A, IO Library Suite 15.5, and Agilent Bootp Service.



Security Settings for LC-MSD and CE-MSD Systems

Security Settings for LC/MSD and CE/MSD Systems

The MSD part of LC/MSD and CE/MSD systems requires exceptions for the Windows Firewall in case the firewall is enabled. Additionally, the communication with the MSD is sensitive to the order NICs in the **Adapters and Bindings** dialog. These settings are described in the following passages.

NOTE

These settings should only be applied on PCs controlling LC/MSD or CE/MSD systems.

Internet Security Settings:

Start > Settings > Control Panel > Security Center

- 1 Click Manage security settings for Windows Firewall
- **2** General tab (See Figure 44 on page 69)
 - a Select option On (recommended)

Security Settings for LC-MSD and CE-MSD Systems

b Disable option **Don't allow exceptions**

😻 Windows Firewall		X
General Exceptions Advanced		
Windows Firewall is helping to protec	t your PC	
Windows Firewall helps protect your computer from gaining access to your computer through	r by preventing unauthori: the Internet or a network	zed users
💿 💿 (recommended)		
This setting blocks all outside sour computer, with the exception of th	rces from connecting to the selected on the Exce	his eptions tab.
Don't allow exceptions		
Select this when you connect locations, such as airports. Yo Firewall blocks programs. Sele ignored.	to public networks in less u will not be notified wher ctions on the Exceptions	s secure n Windows tab will be
0 Off (not recommended)		
Avoid using this setting. Turning o computer more vulnerable to virus	ff Windows Firewall may r es and intruders.	make this
What else should I know about Windows Fire	wall?	
	ОК	Cancel

Figure 44 Windows Firewall Dialog, General Tab

- **3** Exceptions tab (See Figure 45 on page 70)
 - a Select option Display a notification when Windows Firewall blocks a program.
 - $b \;\; {\rm Add} \; {\rm ChemMain.exe} \; {\rm to} \; {\rm the} \; {\rm list} \; {\rm of} \; {\rm Programs} \; {\rm and} \; {\rm Services} \;$
 - c Enable an exception for this program.

4 Security Settings

Security Settings for LC-MSD and CE-MSD Systems

 ${\bf d}~$ Disable exceptions for all other programs listed by default.

🛿 Windo	ws Firewall	×
General	Exceptions Advanced	
Windov progran Progran	ws Firewall is blocking incoming network connections including the ns and services selected below.	
Name		
	emote Assistance emote Desktop PnP Framework	
Add	Program Add Port <u>E</u> dit <u>D</u> elete	
What a	play a <u>n</u> otification when Windows Firewall blocks a program re the risks of allowing exceptions?	
	OK Car	ncel

Figure 45 Windows Firewall Dialog, Exceptions Tab

Advanced Network Settings:

Start > Settings > Control Panel > Network Connections

- 1 Select menu Advanced > Advanced Settings
- 2 Adapters and Bindings tab (see Figure 46 on page 71)
 - a Make sure that the Local Area Connection pertaining to the LC/MS or CE/MS NIC is the first item in the list of connections

NOTE

The names of your LAN cards may differ from those shown in the example. You can tell which LAN card is the Instrument LAN by comparing the IP addresses assigned to the LAN cards.

The LAN pertaining to the company intranet > internet will typically have an IP address assigned by organizations Static IP policy or by a DHCP server. Check with your network administrator.

dvanced Settings	<u>?</u> ×
Adapters and Bindings Provider Order	
Connections are listed in the order in which they are accessed by DNS and other network services.	
Connections:	
Local Area Connection 2	Ĵ
[Remote Access connections]	5.
File and Printer Sharing for Microsoft Networks File and Printer Sharing for Microsoft Networks Genetic for Microsoft Networks	\$
Internet Protocol (I CP/IP)	
ОК	Cancel

Figure 46 Advanced Settings Dialog, Adapters and Bindings Tab

Security Settings for LC-MSD Trap Systems

Security Settings for LC/MSD Trap Systems

The MSD part of LC/MSD Trap systems requires exceptions for the Windows Firewall in case the firewall is enabled. These settings are described in the following passages.

NOTE

These settings should only be applied on PCs controlling LC/MSD Trap systems.

Internet Security Settings

Start > Settings > Control Panel > Security Center

1 Click Manage security settings for Windows Firewall
Security Settings for LC-MSD Trap Systems

- 2 On the **General** tab (See below):
 - Select option **On (recommended)**
 - Disable option Don't allow exceptions

🍃 Windo	ws Firewall	×
General	Exceptions Advanced	-
1	Windows Firewall is helping to protect your PC	
Windov from ga	ws Firewall helps protect your computer by preventing unauthorized users ining access to your computer through the Internet or a network.	
1	• On (recommended)	
~	This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.	
	Don't allow exceptions	
	Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.	
8	O Off (not recommended)	
	Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.	
<u>What e</u>	else should I know about Windows Firewall?	
	OK Cancel	

4 Security Settings

Security Settings for LC-MSD Trap Systems

- **3** On the **Exceptions** tab (See below):
 - Select option Display a notification when Windows Firewall blocks a program.

Vindov	vs Firewall	2 22		
eneral	Exceptions	Advanced		
Vindow rogram o work ?rogram	is Firewall is b s and service better but mig ns and Service	locking incoming r s selected below. / ht increase your se es:	etwork connectio Adding exceptions acurity risk.	ins, except for the s allows some progra
Name				
🗌 File	and Printer 9	Sharing		
	prosoft Manag	jement Console		
	nde Deskup 'nP Framewor	, k		
Add F	^D rogram	Add P <u>o</u> rt	<u>E</u> dit	Delete
✓ Disp ✓ hat ar	lay a <u>n</u> otificat	ion when Window: allowing exception	s Firewall blocks a s?	a program
		and the second se		

Security Settings for LC-MSD Trap Systems

4 On the Advanced tab (see below): In the Network Connection Settings section, de-select the Local Area Connection pertaining to the LC/MS NIC. Typically, this is Local Area Connection 2.

ieral Exceptions Advanced	
Network Connection Settings	
Windows Firewall is enabled for the connections selecter exceptions for an individual connection, select it, and the	d below. To add en click Settings:
	-
Local Area Connection	Settings
Local Area Connection 2	
Securitu Logging	
You can create a log file for troubleshooting purposes.	Settings
CMP	
With Internet Control Message Protocol (ICMP), the computers on a network can share error and status information.	S <u>e</u> ttings
Default Settings	
To restore all Windows Firewall settings to a default state click Restore Defaults.	e, <u>R</u> estore Defaults

4 Security Settings

Security Settings for LC-MSD Trap Systems

- 5 From the list of Resources select Change the way Security Center alerts me (See below)
 - Disable Automatic Updates
 - Disable Firewall
 - Enable Virus Protection

🕽 Alert Settings 🔀 🔀
👳 Security Center
Alert Settings
Firewall Alert me if my computer might be at risk because of my firewall settings
Automatic Updates Alert me if my computer might be at risk because of my Automatic Updates settings
Virus Protection Alert me if my computer might be at risk because of my virus protection software settings
OK Cancel

NOTE

With these settings, you will not receive any alerts regarding the state of Windows Firewall. Be sure that you monitor the state of Windows Firewall yourself

Security Settings for GC 7890A Systems

Security Settings for GC 7890A Systems

GC 7890A systems require exceptions for the Windows Firewall in case the firewall is enabled. These settings are described in the following sections.

NOTE

These settings should only be applied on PCs controlling GC 7890A systems.

Internet Security Settings

Start > Settings > Control Panel > Security Center

1 Click Manage security settings for Windows Firewall

4 Security Settings

Security Settings for GC 7890A Systems

- 2 On the General tab (See below):
 - Select option **On (recommended)**
 - Disable option Don't allow exceptions

🔯 Windows Firewall	×
General Exceptions Advanced	1
Windows Firewall is helping to protect your PC	
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.	3
💓 🖻 On (recommended)	
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions ta	ab.
Don't allow exceptions	
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Window Firewall blocks programs. Selections on the Exceptions tab will t ignored.	ws be
🔯 O Off (not recommended)	
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.	8
What else should I know about Windows Firewall?	
OK Canc	el

- **3** On the **Exceptions** tab (See below):
 - Select option Display a notification when Windows Firewall blocks a program.
 - Add **AgtCSRCAModuleDrv.exe** to the list of **Programs and Services** and enable an exception for this program.
 - Disable exceptions for all other programs listed by default.

🐉 Windows Firewall	×
General Exceptions Advanced	
Windows Firewall is blocking incoming network connections including the programs and services selected below. Programs and Services:	
Name	
AgtCSRCAModuleDrv.exe	
File and Printer Sharing Network Diagnostics for Windows XP Remote Assistance	
Remote Desktop UPnP Framework	
Add Program Add Port Edit Delete	
✓ Display a notification when Windows Firewall blocks a program What are the risks of allowing exceptions?	
OK Car	ncel

Security Settings for IO Library Suite 15.5

Security Settings for IO Library Suite 15.5

Using the IO Library Suite 15.0 requires exceptions for the Windows Firewall in case the firewall is enabled. These settings are described in the following sections.

These settings should only be applied on PCs having the IO Library Suite 15.0 installed.

Internet Security Settings

NOTE

Start > Settings > Control Panel > Security Center

1 Click Manage security settings for Windows Firewall

Security Settings for IO Library Suite 15.5

- 2 On the General tab (See below):
 - Select option **On (recommended)**
 - Disable option Don't allow exceptions

Windo from ga	windows Pirewains neighing to protect your PC ws Firewall helps protect your computer by preventing unauthorized users aining access to your computer through the Internet or a network.
٧	• On (recommended)
	This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab
	☐ <u>D</u> on't allow exceptions
	Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
1	O Off (not recommended)
~	Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.

4 Security Settings

Security Settings for IO Library Suite 15.5

- **3** Exceptions tab (See below)
 - Select option Display a notification when Windows Firewall blocks a program.
 - Add Siclland.exe to the list of Programs and Services
 - Enable an exception for this program.
 - Add the following ports to the list of **Programs and Services**:
 - LxiAllow: 5044 (UDP)
 - LxiAllow: 5044 (TCP)
 - LxiAllow: 320 (UDP)
 - LxiAllow: 319 (UDP)
 - SunRpcAllow: 111 (UDP)
 - SunRpcAllow: 111 (UPD)
 - Enable exceptions for these ports.
 - Disable exceptions for all other programs listed by default.

NOTE

The above listed programs and ports are added to the list of exceptions for the firewall during installation of the IO Library Suite 15.5 per default.

4

Security Settings Security Settings for IO Library Suite 15.5

😸 Windov	ws Firewall	×
General	Exceptions Advanced	
Windov program Program	ws Firewall is blocking incoming network connections including the ns and services selected below. ms and Services:	
Name	9	
V LX V LX V LX Re Re Sid V Su V Su	kiAllow kiAllow kiAllow etwork Diagnostics for Windows XP emote Assistance emote Desktop iclland unRpcAllow unRpcAllow PnP Framework	
Add I	Program Add Port Edit Delete play a notification when Windows Firewall blocks a program are the risks of allowing exceptions?	
	OK Can	cel

4 Security Settings

Security Settings for Systems using Agilent Bootp Service

Security Settings for Systems using Agilent Bootp Service

If you use Agilent Bootp Service for administration of IP addresses for Agilent instruments on a LAN, your system requires exceptions for the Windows Firewall in case the firewall is enabled. These settings are described in the following passages.

NOTE

These settings should only be applied on PCs using Agilent Bootp Service.



5 Additional Modifications

Install ChemStation 86

Profiles and Group Policies to run ChemStation as PowerUser/User 87

These modifications can only be performed using an Administrator user account



Install ChemStation

1 Install the ChemStation Software to C:\Chem32 (logged on with Administrator user account).

Profiles and Group Policies to run ChemStation as PowerUser/User

The ChemStation system needs to be installed using an operating system Administrator user account. To run the system with the configured options outlined in this document, all Users and PowerUsers should use the same settings.

Some of the outlined settings can be simplified by using the Windows Group Policy or by copying user profiles in order to simplify the User/PowerUser setup. But some changes (e.g. performance settings) can only be set manually using the Administrator account.

5

5 Additional Modifications

Profiles and Group Policies to run ChemStation as PowerUser/User



6 Maintaining the PC's File System

Scanning and Repairing NTFS Volumes 90 Defragmenting an NTFS Volume 92 Scanning for Viruses 94 Cleaning up Left-Over Temporary Files 95 Performing Backups 97 Windows XP Backup 97 Automating and Scheduling Windows XP Backup 97 Travan Tape Drives 98 Digital Audio Tape (DAT) Drives 98 Magneto-Optical (MO) Disk Drives 98 Recordable CD-ROM 99 Recordable DVD 99 Network Servers 99

To help to optimize the performance of your ChemStation system it is important that you schedule routine maintenance (e.g. deleting unnecessary files). The following instructions should be used as a part of your routine maintenance schedule.

NOTE

You will need Administrator capabilities to perform these tasks.



Scanning and Repairing NTFS Volumes

- 1 Double-click My Computer on the desktop.
- **2** Select the C: drive.
- **3** Select File > Properties.
- 4 From the Tools tab, click Check Now in the Error-checking section.

Local Disk (C:) Properties	? ×
General Tools Hardware Sharing Security Quota	1
Error-checking This option will check the volume for errors.	w]
Defragmentation This option will defragment files on the volume. Defragment M	10w]
Backup This option will back up files on the volume. <u>B</u> ackup No	IW
OK Cancel	Apply

5 Select both Check disk options Automatically fix file system errors and Scan for and attempt recovery of bad sectors.

6 Click the Start button.

 Automatically fix file system errors Scan for and attempt recovery of bad sectors 	Automatically fix file system errors Scan for and attempt recovery of bad sectors
Scall for and accompetence of an addressed	

7 The warning message The disk check could not be performed because the disk check utility needs exclusive access to some Windows files on the disk. These files can be accessed only by restarting Windows. Do you want to schedule this disk check to occur the next time you restart the computer? is displayed. Press Yes.

Checking) Disk Local Disk (C:)
i)	The disk check could not be performed because the disk check utility needs exclusive access to some Windows files on the disk. These files can be accessed only by restarting Windows. Do you want to schedule this disk check to occur the next time you restart the computer?

- 8 Restart the computer. During startup, Check Disk will be performed.
- 9 Repeat the steps outlined above for the other drives on your computer.

6 Maintaining the PC's File System Defragmenting an NTFS Volume

Defragmenting an NTFS Volume

Compared to the FAT file system, fragmentation of files on an NTFS volume is greatly reduced. By design, fragmentation only occurs on an NTFS volume if a file increases in size after it is on the drive. This means that backing up a volume to tape and restoring it from tape will result in an unfragmented volume.

Windows XP Professional includes a defragmentation utility.

Perform the following steps to use the defragmentation utility provided by Microsoft Windows:

- 1 Select Start > Programs > Accessories > System Tools > Disk Defragmenter.
- 2 Select the drive (e.g. C:) you want to analyze and click the Analyze button.

 Disk Défragmei 	nter				
jile <u>A</u> ction <u>V</u> iev	∾ <u>H</u> elp				
> 🖪 😫					
olume	Session Status	File System	Capacity	Free Space	% Free Space
∋(C:)		NTFS	3.99 GB	1.24 GB	31 %
)(E:)		NTFS	4.00 GB	3.98 GB	99 %
Estimated disk usa	ge before defragmentat	ion:	-	-	
Estimated disk usa	ge after defragmentation				
Estimated disk usa	ge after defragmentation	Pause Sto	p View Re	port	
Estimated disk usa	ge after defragmentation	Pause Sto	p View Re	port	-
Estimated disk usa Analyze Fragmented fil	ge after defragmentation	Pause Sto	p View Re	port	
Estimated disk usa Analyze Fragmented fik	ge after defragmentation	Pause Sto	p View Re	port	

3 If the result of the analysis indicates that the drive needs defragmentation, click **Defragment**. Otherwise, defragmentation is not necessary at this time, and you can click **Close**.

Disk Defragmenter		<u>? ×</u>
Analysis is complete for:	: (C:)	
You do not need to defr	agment this volume.	
View <u>R</u> eport	Defragment	⊆lose

CAUTION

Defragmentation of your harddisk while ChemStation is acquiring data can cause loss of data.

- → Never defragment your hard disk drive during data acquisition
- 4 Repeat these steps for the other drives on your system.

6 Maintaining the PC's File System Scanning for Viruses

Scanning for Viruses

If the Agilent ChemStation computer is connected to the network in order to communicate with other systems (LAN, modem, BBS, etc.) or if you share files with other computer users, we recommend scanning the drives for computer viruses. If you download programs from the internet or exchange documents or programs through e-mail or flexible disks, a virus-check utility is mandatory.

Many different utilities are available for virus scanning. Many of these utilities also come with periodic updates as new viruses are discovered. You have to be aware that these utilities will degrade the performance of the hard disk when scanning for viruses. Additionally, other side effects may influence the behavior of your system.

Agilent ChemStation was tested to work together with Symantecs Norton Antivirus. We recommend that you scan all disks of your ChemStation computer at least once per week for viruses. It is essential that you perform the LiveUpdate to obtain the latest virus definitions as provided by Symantec as reaction on new viruses.

NOTE

Never perform a virus scan during data acquisition, as this will degrade the performance of the hard disk and the acquired data might not be written to the hard disk fast enough, causing a power fail or buffer overrun message in the instrument log book and possible loss of data.

NOTE

With Norton AntiVirus versions prior to Norton Antivirus 2005, Windows Security Center will be aware that you have Norton AntiVirus installed, but it will not be able to determine its working status. Please either refer to Windows for help on how to disable the Security Alert for Virus Protection and monitor Norton AntiVirus yourself or refer to Symantec support to obtain an update which adds compatibility to Windows Security Center.

Cleaning up Left-Over Temporary Files

Occasionally, temporary files may accumulate in the directory specified by the TEMP environment variable. These files generally are left open when Windows is abnormally terminated, for example, by powering your computer down without closing Windows first. The Windows temporary files are named ~XXXXXX.TMP, where XXXXXX are characters and numbers produced by the program that created the temporary file. To recover the temporary space, you should delete these files after closing all currently running applications.

To determine which directory is currently being used for temporary files, type **SET** at the command prompt. This will echo back the current settings for all user and system environmental variables.

- 1 Select Start > Programs > Accessories > System Tools > Disk Cleanup.
- **2** Select the drive (e.g. C:) you want to clean up.

Select the drive you want to clea	n up.
☑	
OK	Exit

3 Select **Temporary Files** and **Temporary Internet Files**. You may select other types of files to delete, depending on your understanding of these file types and the way you use your PC. It is possible to delete vital files with the Disk Cleanup utility, so do not delete file types that you do not understand. Do

6 Maintaining the PC's File System

Cleaning up Left-Over Temporary Files

not select the option $\mbox{ Compress old files }$ on a ChemStation computer. Press $\mbox{ OK}.$

isk Cleanup More Options	
You can use Disk Cleanup to free up space on (C:).	to 440,642 KB of dis
Files to delete:	
🔲 🖻 Downloaded Program Files	0 KB
🗹 🔒 Temporary Internet Files	9,037 KB
🗖 🥑 Recycle Bin	0 KB -
🗖 🖻 Setup Log Files	746 KB
🗹 🖻 Temporary files	43 KB
fotal amount of disk space you gain:	9,080 K
Downloaded Program Files are ActiveX contr downloaded automatically from the Internet w	ols and Java applets when you view certain whoaded Program
pages. They are temporarily stored in the Dou Files folder on your hard disk.	
pages. They are temporarily stored in the Dou Files folder on your hard disk.	View Files

4 Repeat these steps for the other drives on your system.

Performing Backups

In order to protect your valuable data, an appropriate backup strategy is mandatory. We recommend to archive your data files in regular intervals. If your data is no longer required to be available online, you should also archive them and remove them from your hard disk. This will free up valuable storage space on your computers hard disk as data acquired from a diode array or mass spectrometer detector may easily exceed several megabytes in size.

Windows XP Backup

Windows XP Professional includes compatible backup programs that support many standard tape devices. The backup utility also allows for backing up to a single file, which can then be placed on an offline medium. Both backup utilities allow the Windows Registry to be backed up as well as data.

Automating and Scheduling Windows XP Backup

Windows XP allows automation and scheduling of Backup jobs through the use of batch files and the Scheduler service. The Scheduler is available by default for Windows XP.

CAUTION

Do not perform a backup while ChemStation is acquiring data.

This will degrade the performance of the hard disk and the acquired data might not be written to the hard disk fast enough, causing a power fail or buffer overrun message in the instrument log book and possible loss of data. It may also result in inconsistencies in the file structure stored on the backup medium.

→ Be sure to perform any backup with a Windows-based backup utility during times where no data acquisition is scheduled. 6 Maintaining the PC's File System Performing Backups

Travan Tape Drives

Tape drives are the most common backup devices available today. The IDE tape drives combine lowest initial hardware cost with acceptable performance (up to 4 GB > hour). Travan tapes are a reasonable backup solution for most laboratories that run their Agilent ChemStation on single workstation PCs. The minimum storage capacity per tape is currently around 2.5 GB of uncompressed data.

You will need an appropriate backup utility that supports the drive.

NOTE

Never run an MS-DOS-based tape backup utility from Windows. This may result in corrupt file information on the tape.

Digital Audio Tape (DAT) Drives

Digital audio tape (DAT) drives are suited to handle large amounts of data (storage capacity is typically 2 to 6 GB or more), but require a SCSI interface installed in the PC.

Magneto-Optical (MO) Disk Drives

MO disk drives are high storage capacity devices (at least 1.3 GB) connected externally to a SCSI interface that must be installed in your PC. MO disk drives are capable of reading and writing*write-once* media and rewritable disks.

No specific backup software is required. The supporting drivers are shipped with the operating system or the device and allow for accessing the additional MO disk as if it was a floppy disk.

NOTE

If the rewritable disk is formatted with NTFS, it cannot be hot-swapped, i.e. ejected and exchanged while the system is running. To change disks, you need to shut down Windows.

Recordable CD-ROM

CD-R (CD-Recordable) systems allow you to record up to 700 > 800 MB of data on a single CD-R disk. The CD reader > recorder is usually connected to your PC the IDE interface. The CD-R media have a very long life, making them ideally suited to archiving. The CD-R disks can be read by other computers fitted with CD-ROM drives and appropriate software.

Recordable DVD

Recordable DVDs are available in several formats, e.g. DVD+R and DVD-R. They allow you to record up to 4.7 GB (Single Layer) > 8.5 GB (Double Layer) of data on a single DVD. The DVD reader > recorder is usually connected to your PC the IDE interface. DVD±R disks have life times comparable to CD-ROM disks. In contrast to some other DVD formats, DVD±R disks are not rewritable and thus are especially suited for long-term archiving. The DVD±R disks can be read by other computers fitted with DVD drives and appropriate software.

Network Servers

Network servers can also be used for data backup purposes, provided that the network system administrator has implemented an appropriate backup strategy for data stored on the servers disk. One strategy is to allocate a portion of the servers hard disk space for your Agilent ChemStation. This portion on the server is called a *share* which you can use for your standard file operations (access, copy, evaluate files) within Windows.

The advantage of this approach is that backup will be performed centrally by a system administrator for all users that have accounts (logon capabilities) on the system.

NOTE

Using a 3.5-inch floppy disk drive is not a reasonable backup solution for the Agilent ChemStation.

Index

A

anti virus 8, 26, 46, 94

В

backup strategy 97

С

CD-ROM recordable 99 configure settings Windows 7 47 Windows Vista 27 Windows XP 9

D

defragmentation 92 digital audio tape drives 98 disc clean-up 95 drives for backup 97

F

folder options Windows 7 49 Windows Vista 29 Windows XP 11

Μ

magneto-optical disk drives 98

Ν

network

server 99 NTFS volumes 90

Ρ

Power Options Windows XP 12 power user 87

R

recordable CD-ROM 99 repairing NTSF 90

S

security settings Bootp service 84 GC 7890A 77 LC/MSD and CE/MSD 68 security settings LC/MSD trap 72 security 8 server network 99

T

temporary files 95 travan tape drive 98

U

user profiles 87

V

virus scan 94

W

Windows 7 configure 47 installation 46 Windows Vista configure 27 installation 26 Windows XP configure 9 installation 8 write-once media 98 Index

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In This Book

This manual describes how to configure a non-Agilent PC Bundle system.

The first three chapters of this document, identify and describe all parameters necessary to configure a non-Agilent PC Bundle system as well as important settings such as Internet Security.

The forth and fifth chapter, describe instrument specific security settings and additional configuration tasks, respectively.

The last chapter, describes how to maintain your computer to keep its performance in an optimal status.

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