OpenLAB CDS ChemStation Edition

Configure your ChemStation Computer



Agilent Technologies

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Software Revision

This guide is valid for revision C.01.04 or higher of the Agilent ChemStation software.

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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.

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.

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 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. C.01.04 or higher. It also covers important settings like Internet Security.

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows 7 system for use with Agilent ChemStation Rev. C.01.04 or higher.

3 Security Settings

This chapter summarizes all security settings required for LC/MSD, CE/MSD, LC/MSD Trap. All other security settings are set automatically by the OpenLAB CDS Master Installer.

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How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher

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This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows XP SP 3 system for use with Agilent ChemStation Rev. C.01.04 or higher. It also covers important settings like Internet Security.



1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 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.

Configure Windows XP Settings

NOTE

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.

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. C.01.04 or higher Configure Windows XP Settings

- b Start Menu > Customize button (See Figure 1 on page 8): In Advanced Start menu options: Disable the following option:
 - Use Personalized Menus



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 9)
 - **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 10)
 - a Select the Power Schemes tab
 - **b** From **Power Schemes** drop down box select one of the power schemes

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings

- c Set the drop down boxes Turn off hard disks and System standby to Never.
- d Select the Hibernate tab: disable Enable hibernation .

Power Options Properties			<u>?</u> ×
Power Schemes Advance	d Hibernate	UPS	
Select the power this computer. N the selected sch	er scheme with lote that chan neme.	the most appropr ging the settings b	iate settings for below will modify
Power schemes			
Home/Office Desk			
		<u>S</u> ave As	Delete
Settings for Home/Office	e Desk power	scheme	
Turn off <u>m</u> onitor:	After 20 min:	3	•
Turn off hard disks:	Never		_
System s <u>t</u> andby:	Never		•
	OK	Cancel	Apply

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**

Figure 4 Local Security Settings Dialog

- [MUST] 8 Disable Automatic Startup of Windows Messenger: (Start > Programs > Windows Messenger > Tools > Options):
 - a Select the Preferences tab (See Figure 5 on page 12)
 - **b** In the General section disable Run Windows Messenger when Windows starts.

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings

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 13)

egional and Language Options	? ×
Regional Options Languages Advanced	
Standards and formats	

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

your own forr English (Uni	nats: ted States)
Samples	
Number:	123,456,789.00
Currency:	\$123,456,789.00
Time:	10:09:06 AM
Short date:	3/10/2004
Long date:	Wednesday, March 10, 2004
ocation	
<u>T</u> o help servi weather, sele	ces provide you with local information, such as news and act your present location:
Germany	

Figure 6 Regional and Language Options Dialog, Regional Options Tab

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP 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** button (See Figure 7 on page 14):
 - Decimal symbol = . (point)
 - Digit grouping symbol = , (comma)
 - List separator =, (comma)

Customize Regional Options	<u>? ×</u>
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:	,
Digit grouping:	123,456,789
Negative sign symbol:	·
Negative number <u>f</u> ormat:	-1.1
Display leading zeros:	0.7
List separator:	,
<u>M</u> easurement system:	U.S.
0)	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 15).

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. Select a language to match the language version of the non-Unicode programs you want to use:		
English (United States)		
Image: Second Forget Control (MAC - Roman) Image: Second Control (MAC - Japanese) Image: Second Control (MAC - Japanese) Image: Second Control (MAC - Japanese) Image: Second Control (MAC - Traditional Chinese Big5) Image: Second Control (MAC - Korean) Image: Second Control (MAC - Arabic) Image: Second Control (MAC - Hebrew)		
Default user account settings Apply all settings to the current user account and to the default user profile		
OK Cancel App	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 17)
 - **b** Apply the changes by selecting **OK**.

1

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings

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

Microsoft applies special sets of permissions to certain folders, such as the SNTUninstallKB... 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.

NOTE

How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings

Local Disk (C:) Pi	roperties	? ×		
General Tools Hardware Sharing Security Quota				
-				
Type: File system:	Local Disk NTFS			
Used space	e: 2,242,945,024 bytes	2.08 GB		
Free space	e: 6,335,987,712 bytes	5.90 GB		
Capacity:	8,578,932,736 bytes	7.98 GB		
	Drive C	Disk Cleanup		
Compress of Compress of Compress of Compress of Compression (Compression)	frive to save disk space ing Service to index this disk for fa	ist file searching		
	OK Cancel	Apply		

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

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings

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

- **a** Please change the following items in the **Display Properties** dialog (See Figure 9 on page 17):
 - 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.)

D	isplay Pr	operties				? ×
	Themes	Desktop	Screen Saver	Appearance	Settings	1 ,

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 19):
 - 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.

How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings

Performance Options	? ×
Visual Effects Advanced Data Execution Prevention	
Processor scheduling	_
By default, the computer is set to use a greater share of processor time to run your programs.	
Adjust for best performance of:	
Programs C Background services	
Memory usage	
By default, the computer is set to use a greater share of memory to run your programs.	
Adjust for best performance of:	
Programs System cache	
Virtual memory	
A paging file is an area on the hard disk that Windows uses if it were RAM.	as
Total paging file size for all drives: 384 MB	
⊆hange	
OK Cancel As	oply

Figure 11 Performance Options Dialog, Advanced Tab

- **b** Advanced tab > Startup and Recovery > Settings button (See Figure 12 on page 20):
 - **System startup** section: Change both **Time to display...** fields from 30 to 3 sec.

- 1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings
 - System failure section: Set Write debugging information to none

artup 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.	<u>E</u> dit
System failure	
☑ <u>W</u> rite an event to the system log	
Send an administrative alert	
Automatically restart	
Write debugging information	
(none)	
Dump file;	
WSystemRoot%(MEMORY,DMP	
verwrite any existing file	
	Capcel
0K	

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.

- 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 ? 🗙			
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 22):
 - a Use one setting for all drives
 - b Do not move files to the Recycle Bin. Remove files immediately when deleted

1

1 How to configure Windows XP SP 3 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows XP Settings

c Display delete confirmation dialog



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 7 for use with Agilent ChemStation Rev. C.01.04 or higher

Install Windows 7 24 Configure Windows 7 Settings 25 OpenLAB CDS Config Checker 25 Manual Configuration 25

This chapter identifies and describes all parameters necessary to configure a non-Agilent Windows 7 system for use with Agilent ChemStation Rev. C.01.04 or higher.



2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 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.

Configure Windows 7 Settings

NOTE

OpenLAB CDS Config Checker

This tool is only available for OpenLAB CDS ChemStation Edition on Windows 7.

The OpenLAB CDS Configuration Checker checks and repairs all *mandatory* settings. It does not check optional settings or settings that improve the performance.

The OpenLAB CDS Configuration Checker comes as .diagcab file, which is a file format used with Microsoft Windows Troubleshooting Platform (WTP) program. Microsoft Windows Troubleshooting Platform (WTP) is a platform to locate and fix hardware and software settings in Windows. It is used specifically for diagnosing and repairing computer settings.

In general, .diagcab files are useful for deploying troubleshooting packs because they are self-contained and require no installation. They can be deployed onto Web sites, network shares, or copied to USB keys. The .diagcab file name extension is a registered file name extension that can be executed by WTP.

To start the OpenLAB CDS Configuration Checker, call the file Agilent.Wtp.ChemStation.WindowsConfiguration.diagcab. This file is located on the OpenLAB CDS Disk 6 under Tools\OpenLAB CDS ChemStation Edition\ Diagnostics\WindowsConfiguration\Cab\

Manual Configuration

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.

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings

ΝΟΤΕ	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.
[MUST]	 1 Folder Options: (right-click Start > Open Windows Explorer) a Click Organize > Layout Select Menu Bar

- Select Navigation Panel
- $\boldsymbol{b}~$ Set View to Details
- c Click Tools > Folder Options
 - View tab:

Clear Hide extensions for known file types;

 $\operatorname{Clear}\,$ Display the full path in the title bar (classic theme only)

d Click Apply to Folders to apply these settings to all folders.

[MUST] 2 Go to Start > Control Panel > Windows Update. Check for updates and apply all critical security patches.



[MUST] 3 Go to Start > Control Panel > System, and register Windows 7 with Microsoft.

- 2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings
 - [MUST] 4 Click Change Settings > . In the > Important updates section select Never check for updates. Clear the other update options.

Control Panel\All Control Panel Items\Windows Update\Change settings	_ 🗆 🗵
😋 🕞 🗸 🖓 🔹 All Control Panel Items 🔹 Windows Update 🔹 Change settings 🔹 😨 Search Control Panel	<u> 2</u>
Eile Edit View Tools Help	
Choose how Windows can install updates When your computer is online, Windows can automatically check for important updates and install them using these settings. When new updates are available, you can also install them before shutting down the computer. How does automatic updating help me? Important updates Never check for updates (not recommended) Install new updates: Every day at 3:00 AM Recommended updates	
Who can install updates Allow all updates on this computer Note: Windows Update might update itself automatically first when checking for other updates. Read our <u>privacy</u> <u>statement online</u> .	

Figure 14 Windows Update Settings

Close the **Update** screen

This setting is important to avoid data loss due to system reboot during data acquisition.

NOTE

[MUST] 5 Go to Start > Control Panel > Administrative Tools. Click Services. Right-click on the Desktop Window Manager Session Manager. In the context menu select Properties. Set the startup type to Disabled. Confirm by clicking OK.

Services	11-1-		
Services (Local)	Services (Local) Deskton Window Manager Session	Name	Description
	Desktop Window Manager Session Manager Description: Provides Desktop Window Manager startup and maintenance services	Name Image: Service Process Launcher Image: Desktop Window Manager Session Manager Image: Desktop Window Manager Session Manager Properties (Local Control Diagn Image: Desktop Window Manager Session Manager Properties (Local Control Diagn Image: Desktop Window Manager Session Manager Properties (Local Control Diagn Image: Diagn Image: Diagn Image: Diagn Image: Diagn Image: Display name: Desktop Window Manager Session Manager Image: Display name: Desktop Window Manager Session Manager Image: Description: Provides Desktop Window Manager startup and maintenance services	Description A The DCOM Provides De D D D D D D D
		Path to executable: Path to executable: C:\Windows\System32\svchost.exe -k LocalSystemNetworkRestricte Funct Startup type: Disabled Heb me configure service startup options. Hebit	d bu O th e i.5
	Extended / Standard /	General Home Service status: Stopped Start Stop Pause You can specify the start parameters that apply when you start the ser from here. Start parameters:	e en en en en en en
		OK Cancel	Apply

Figure 15 Disable Desktop Service

Do the same for $\ensuremath{\mathsf{Application}}\xspace$ Experience service and close the $\ensuremath{\mathsf{Services}}\xspace$ window.

Close Administrative Tools

- 2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings
 - [MUST] 6 Go to Start > Control Panel > Indexing Options. Click the Modify button. Clear all drives and locations. Click OK. Click Close.

A Indexing Options	X		
1 items indexed Indexing complete.		Change selected locations	
Included Locations	Exclude	Summary of selected locations	
Modify Rdvanced How does indexing affect searches? Troubleshoot search and indexing	Pause Close	Included Locations	Exclude OK Cancel

Figure 16 Disable file indexing

How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher 2 Configure Windows 7 Settings

[MUST] 7 Navigate to Local Computer Policy > Computer Configuration > Administrative Templates > System > Logon. Select Hide entry points for Fast User Switching and Always use classic logon.



Figure 17 Local Group Policy Editor Dialog

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher

Configure Windows 7 Settings

[MUST] 8 Adust Power Options via Start > Control Panel > Power Options.

- a As preferred plan select High performance
- **b** Click Change Plan settings (see Figure 19 on page 33)
- c Set the option Put the computer to sleep to Never
- d Click Change advanced power settings. Open the nodes for Hard disk, Turn off hard disk after and set the Minutes to 0 (=Never). Click OK
- e Save the changes.

٠	Power Options		<u> </u>
C	🔪 👻 👻 Control Panel 👻 All C	iontrol Panel Items 🔻 Power Options 🔹 🛃 Search Control Pane	I 🖉
Eile	: <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp		
	Control Panel Home	Select a power plan	0
	Require a password on wakeup	Power plans can help you maximize your computer's performance or conserve energy, selecting it, or choose a plan and customize it by changing its power settings. <u>Tell me r</u>	Make a plan active by nore about power plans
	Choose what the power button does	Preferred plans	
	Create a power plan	C Balanced (recommended)	Change plan settings
P	Choose when to turn off the display	Automatically balances performance with energy consumption on capab	le hardware.
۲	Change when the computer sleeps	⊙ High performance	Change plan settings
		Favors performance, but may use more energy.	
	Canada.	Hide additional plans	
	Personalization	C Power saver	Change plan settings
	User Accounts	Saves energy by reducing your computer's performance where possible.	

Figure 18 Selecting a power plan

How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher 2

Configure Windows 7 Settings

🐌 Ed	it Plan	Settin	gs						
0	0-	- 😵	Power (Options	 Edit Plan Settings 	•	5	Search Control Panel	2
Eile	<u>E</u> dit	<u>V</u> iew	<u>T</u> ools	<u>H</u> elp					
Ch	ange	setting	s for th	e plan:	High performance				
Ch	oose ti	ne sleep	and disp	lay sett	ings that you want yo	our computer	to use	2.	
ſ) Turn	off the	display:		1 hour	•			
۲	Put t	he comp	outer to :	sleep:	Never	•			
<u>C</u> h <u>R</u> e	ange a store d	dvanced lefault se	l power : ettings fi	settings or this p	lan				
								Save changes	Cancel

Figure 19 Edit Plan Settings: High Performance

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 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 [Active]	
 High performance Require a password on wakeup Setting: Yes 	
⊟ Hard disk	
Turn off hard disk after	
Setting (Minutes): Never	-
Uesktop background settings Wireless Adapter Settings	
Vireiess Adapter Settings E Sleep	
	-
<u>R</u> estore plan defaults	
OK Cancel <u>App</u>	ly

Figure 20 Power Options

- [MUST] 9 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



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

Figure 21 Local Security Policy Dialog: Network

[MUST] 10 Regional and Language Options: (Start > Control Panel > Regional and Language Options)

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings

a Regional options should be set to **English (United States)** from the drop down list.

Region and Langua	ge	[
Format:	·	1
English (United Stat	es)	1
Date and time form	nats	1
<u>S</u> hort date:	M/d/yyyy	
Long 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 week:	Sunday	
What does the not	ation mean?	
Examples		1
Short date:	8/5/2010	
Long date:	Thursday, August 05, 2010	
Short time:	3:43 PM	
Long time:	3:43:36 PM	
	A <u>d</u> ditional settings	1
Go online to learn at	pout changing languages and regional formats	
	OK Cancel Apply	

Figure 22 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:
 - 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				
Negative sign symbol:	-				
Negative number format:	-1.1				
Dis <u>p</u> lay leading zeros:	0.7				
List separator:	,				
Measurement system:	U.S.				
Standard digits:	0123456789				
Use native digits:	Never				
Click Reset to restore the system default settings for <u>R</u> eset <u>Reset</u>					
	OK Cancel Apply				

Figure 23 Customize Regional Dialog

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings

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



Do not change system locale if your are using an English, Japanese or Chinese Operating System.

🚱 Region and Language	×
Formats Location Keyboards and Languages Administrative Welcome screen and new user accounts View and copy your international settings to the welcome screen, system accounts and new user accounts.	
Image: I	
English (United States)	Region and Language Settings Select which language (system locale) to use when displaying text in programs that do not support Unicode. This setting affects all user accounts on the computer. Current system locale: English (United States)
OK Cancel Apply	OK Cancel

Figure 24 Regional and Language Options Dialog, Administrative Tab

[MUST] 11 Power Management for network devices (From Start > Control Panel > Network and Sharing Center) Select Change adapter settings. Right-click Local Area Connection > Properties > Configure) a On the Power Management tab, clear all check boxes.

Intel(R) 82566DM Gigabit Network Connection Properties	×
General Advanced Driver Details Power Management	
Intel(R) 82566DM Gigabit Network Connection	
 Allow the computer to turn off this device to save power Allow this device to wake the computer Only allow a magic packet to wake the computer 	
Warning: 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 carrying case.	
OK Cancel	

- [PERFORMANCE] 12 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 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings

c Click Effects. Clear all three checkboxes.

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] 13 System Properties: Start > Control Panel > System: click Advanced system settings.
 - a On the Advanced tab > Performance click Settings.
 - 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. If possible locate the paging file on a drive different from system and ChemStation installation drive.
 - Data Execution Prevention tab: Select Turn on DEP for essential Windows programs and services only.
 - **b** Advanced > Startup and Recovery > Settings button:
 - System startup section:

Change both Time to display ... fields from 30 to 3 sec.

• System failure section:

Select Automatically restart, select Write Kernel Memory Dump.

- \boldsymbol{c} Remote tab
 - In the Remote Assistance section, clear the checkbox Allow Remote Assistance connections to this computer.
 - In the Remote Desktop section, select Don't allow connections to this computer.

System Properties					
Computer Name Hardware Advanced System Protection Remote					
Remote Assistance					
What happens when I enable Remote Assistance?					
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>Apply</u>					

[OPTIONAL] 14 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:
 - Clear the following option:
 - Favorites menu
 - Select the following options:

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings

- 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
- · Games: Don't display this item
- Help
- Highlight newly installed programs



Figure 26 Start Menu configuration

- Music: Don't display this item
- Network
- Open submenue when I pause on them with the mouse pointer
- · Personal submenus: 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
- [OPTIONAL] 15 Welcome Center (Start > search for 'gpedit.msc')
 - Navigate to Local Computer Policy > Computer Configuration > Administrative Templates > System > Logon
 - Select Don't display the Getting Started welcome screen at logon.



Figure 27 Local Group Policy Editor Dialog

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

2 How to configure Windows 7 for use with Agilent ChemStation Rev. C.01.04 or higher Configure Windows 7 Settings

🗊 Recycle Bin Properties	×
General	
Recycle Bin Location Space Available	
DATA (D:) 129 GB	
PROGRAMS (C:) 19.5 GB	
Settings for selected location	
• Custom size:	
Maximum size (MB): 2000	
C Don't move files to the <u>R</u> ecycle Bin. 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.



3

Security Settings for LC-MSD and CE-MSD Systems46Security Settings for LC-MSD Trap Systems50

This chapter summarizes all security settings required for LC/MSD, CE/MSD, LC/MSD Trap. All other security settings are set automatically by the OpenLAB CDS Master Installer.



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 Adapte and Bindings dialog. These settings are described in the following passage. In case a custom firewall is used, please contact your administrator to make the necessary exceptions.
	The settings described below apply to Win XP only. If you are a Window 7 user do the following:
	1 Start > Control Panel > Windows Firewall
	2 click Advanced Security and enter the necessary rules
TF	Please contact a MSD product specialist for the required rules

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 28 on page 47)
 - a Select option On (recommended)

Security Settings for LC-MSD and CE-MSD Systems

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



Figure 28 Windows Firewall Dialog, General Tab

- **3 Exceptions** tab (See Figure 29 on page 48)
 - a Select option Display a notification when Windows Firewall blocks a program.
 - **b** Add ChemMain.exe to the list of Programs and Services
 - c Enable an exception for this program.

Security Settings for LC-MSD and CE-MSD Systems

-	d	Disable	exceptions	for	all	other	programs	listed	by	defau
---	---	---------	------------	-----	-----	-------	----------	--------	----	-------

S Windows Firewall				
General	Exceptions	Advanced		
Windov program Program	vs Firewall is t is and service is and Servic	llocking incoming net is selected below. es:	work connections ir	ncluding the
Name				
	emote Assista emote Deskto PnP Framewo	nce p rk		
Add	P <u>r</u> ogram	Add Port	<u>E</u> dit	<u>D</u> elete
🔽 Disp	olay a <u>n</u> otifica	tion when Windows F	Firewall blocks a pro	gram
<u>What a</u>	re the risks of	allowing exceptions?		
			OK	Cancel

Figure 29 Windows Firewall Dialog, Exceptions Tab

Security Settings for LC-MSD and CE-MSD Systems

Advanced Network Settings:

Start > Settings > Control Panel > Network Connections

- 1 Select menu Advanced > Advanced Settings
- **2** Adapters and Bindings tab (see Figure 30 on page 49)
 - 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.

idvanced Settings	? ×
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 Local Area Connection	Î
Bindings for Local Area Connection 2:	
File and Printer Sharing for Microsoft Networks	Î
Client for Microsoft Networks Soft Internet Protocol (TCP/IP)	\$
OK	Cancel

Figure 30 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
Ø	Windows Firewall is helping to protect your PC
Windo 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)
Ť	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	C Off (not recommended)
	Avoid using this setting, Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
What e	else should I know about Windows Firewall?
	OK Cancel

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.

Windows Firewall				
eneral Exceptions Advanced				
Windows Firewall is blocking incom programs and services selected bel to work better but might increase yo Programs and Services:	ing networł ow. Adding our security	< connection exceptions risk.	ns, excep allows so	ot for the ome programs
Name				
File and Printer Sharing				
Microsoft Management Conso	e			
UPnP Framework				
Add Program Add Port	.]	<u>E</u> dit		<u>D</u> elete
Display a notification when Win	dows Firew	all blocks a	program	
I HARD BE AND MADE NAMES AN ADDRESS OF A DATA	10 D			
what are the fisks of allowing exce	ptions?			

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**.

exceptions for an individual connection, select it, and the	ed below. To add nen click Settings:
✓ Local Area Connection □ Local Area Connection 2	Settings
Security Logging You can create a log file for troubleshooting purposes.	<u>S</u> ettings
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 stat	^{e,} <u>R</u> estore Defaults

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



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

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In This Book

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

The first two 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 third chapter describes instrument specific security settings.

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