Agilent OpenLAB Chromatography Data System (CDS)

Workstation Installation and Configuration Guide



**Agilent Technologies** 

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## **Software Revision**

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# In this Guide ...

This installation guide is designed to help system administrators install the Agilent OpenLAB Chromatography Data System (CDS) to individual workstations quickly and correctly.

Term	Description
ChemStation	OpenLAB CDS ChemStation Edition
EZChrom	OpenLAB CDS EZChrom Edition
ECM	OpenLAB Enterprise Content Manager
Data Store	OpenLAB Data Store
AIC	Agilent Instrument Controller

 Table 1
 Terms and abbreviations used in this document

## **1** Introduction

This chapter gives you an overview of the OpenLAB CDS software. It also includes certain requirements before starting the installation.

### 2 Configure your Workstation PC

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

### **3 Install the Software**

The installation is automated for you by the included OpenLAB CDS Master Installer. This tool installs the various components of OpenLAB CDS. OpenLAB Data Analysis can also be installed as add-on version or standalone application.

## 4 Uninstall the Software

This chapter contains information on the uninstallation by using the OpenLAB CDS Uninstallation Wizard. It also describes post uninstallation tasks that are essential if you plan to reinstall ChemStation on the same computer.

## **5** Scripted Installation

This chapter describes the syntax and parameters for an installation or uninstallation in command line mode.

## **6** Optional Procedures

This chapter includes information on how to use the Software Verification Tool, and how to upgrade your OpenLAB CDS Workstation to a higher version.

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# Introduction

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This chapter gives you an overview of the OpenLAB CDS software. It also includes certain requirements before starting the installation.



Introduction Who Should Read This Guide?

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# Who Should Read This Guide?

This installation guide is designed to help system administrators and other users install the Agilent OpenLAB Chromatography Data System (CDS) to individual workstations quickly and correctly.



Figure 1 Workstation configuration

See your Agilent representative for other system configuration installation guides.

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# The Agilent OpenLAB CDS Software

The Agilent OpenLAB CDS, along with OpenLAB Enterprise Content Manager (ECM) and OpenLAB Data Store plus several add-ons make up the Agilent OpenLAB software suite.

These integrated solutions form a system designed to grow with customers' needs, from a small standalone analytical lab to a global network with hundreds of locations. Using the OpenLAB software, instruments from multiple vendors can connect to any size network – from individual workstations and workgroups to global enterprises. With full instrument control, centralized administration and ease-of-support, users can achieve lower operational costs and better instrument use. See your Agilent representative to learn how other products in the OpenLAB suite can help you.

The Agilent OpenLAB CDS software is provided on several edition-specific disks. The following table lists the disks you will receive for your software edition.

Disk Name	ChemStation Edition	EZChrom Edition
OpenLAB CDS Shared Services Software	Х	Х
OpenLAB CDS ChemStation Edition Core Software	Х	
OpenLAB CDS ChemStation Edition Drivers	X	
OpenLAB CDS EZChrom Edition Core Software		Х
OpenLAB CDS EZChrom Edition Drivers		Х
OpenLAB CDS Support	X	X
OpenLAB Data Analysis <sup>1</sup>	Х	Х

### Table 2 OpenLAB CDS Components

<sup>1</sup> Only supported with an OpenLAB CDS Workstation, or with OpenLAB CDS EZChrom systems using an Enterprise Path without Advanced File Security. 1 Introduction Before You Begin

# **Before You Begin**

To simplify installation of the software, it is helpful to decide on some configuration options before you begin the actual software installation.

- **1** For installing OpenLAB CDS, you need to have administrator privileges for all servers and clients. Power user privileges are not sufficient (the installation does not start).
- **2** Decide on a directory location to store all files related to the data system software, including data, methods, sequences, and configurations. The directory must always be accessible to the PC running the software.
- **3** If you will be using OpenLAB ECM with your system, obtain the ECM server name.

NOTE

Make sure you have administrator privileges for both ECM and OpenLAB.

- 4 Decide on the software delivery approach you want to use:
  - *Install directly from the DVDs to your computer* Load the disks as required directly to the workstation disk drive. (Recommended)
  - *Copy DVDs to a centralized location for installation* You can use the utility to copy DVD content to a network share folder or USB drive, and run an uninterrupted installation from that location. This approach will save time; when you install from the folder, you won't have to reload the disks. However, some networks may interfere with installation.

**5** Remember that when you launch the application, you will be able to review the following PDFs in the installer **Planning** and **Resources** menus before you install the software.

Under the Installer Planning menu, you will find:

- *OpenLAB CDS Hardware and Software Requirements* Use this PDF to determine whether your hardware and software will support the system.
- *Workstation Installation Guide* An electronic copy of this installation guide is provided in PDF format for your convenience.

Under the Installer Resources menu, you will find:

- *OpenLAB CDS Network Requirements* –Use this PDF to check that your settings comply with the network requirements.
- **6** Install all required hardware, including any A/D boards, cables, GPIB boards, instrument detectors, and communication cables.

Introduction Before You Begin

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



2 Configure your Workstation PC Installing Windows

# **Installing Windows**

# Keep your PC disconnected from the internet until you have installed the appropriate NOTE security patches and hot fixes. It is 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 from the Microsoft installation media. During the setup, provide the computer name, administrator password and network settings. Choose to either join an existing domain or set up the system in a workgroup mode. **2** To secure your system against viruses please install an antivirus program. Be sure to open the firewall ports listed in the Firewall Settings in the OpenLAB CDS Network Requirements guide. Running antivirus programs might influence the behavior and performance of your NOTE computer. Some virus scanners might cause issues when used with OpenLAB CDS. OpenLAB CDS was tested to run with Symantec's Endpoint Protection.

# Using the OpenLAB CDS Configuration Checker

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NOTE

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 the Microsoft Windows Troubleshooting Platform (WTP) program. The 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 disc 6 under Tools\OpenLAB CDS ChemStation Edition\Diagnostics\ WindowsConfiguration\Cab\

While using the Configuration Checker:

- Ensure that this computer is not turned off by another user.
- Ensure that the menu bar is enabled.

2 Configure your Workstation PC Configuring Windows 7

# **Configuring Windows 7**

Some changes within this document are mandatory for OpenLAB CDS 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:

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
- **b** Set View to Details
- c Click Tools > Folder Options
  - View tab:

 $\operatorname{Clear}\,$  Use Sharing Wizard

Clear Hide extensions for known file types

- Enable Display the full path in the title bar
- d Click Apply to Folders to apply these settings to all folders.

[MUST] 2 Check for updates and apply all critical security patches: (Go to Control Panel > Windows Update)<sup>1</sup>

Click Check for updates.

P Control Panel\All Control Panel Items\Windows Update			
COOV Control Panel - All Contro	l Panel Items 👻 Windows Update 🗸 🚱 Search Control Panel	2	
<u>File E</u> dit <u>View T</u> ools <u>H</u> elp			
Control Panel Home	Windows Update	0	
Check for updates			
Change settings	Check for updates for your computer		
View update history	Always install the latest updates to enhance your computer's security and		
Restore hidden updates	performance.	_	
Updates: frequently asked questions	Check for updates		
	Most recent check for updates: Never		
	Updates were installed: Never		
See also	rou receive updates: For windows only.		
Installed Updates	Get undates for other Microsoft products. Find out more		
💐 Windows Anytime Upgrade			
· · · · · ·			

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

<sup>&</sup>lt;sup>1</sup> View the items by icon to see a list of all items.

**Configuring Windows 7** 

[MUST] 4 Settings for updates (Go to Start > Control Panel > Windows Update):

Click Change settings. In the Important updates section, select Never check for updates. Clear the other update options.

🦉 Co	ontrol I	Panel\	\All Control Panel Items\Windows Update\Change settings	
0	0-	<b>@</b> •	All Control Panel Items      Windows Update      Change settings     Search Control Panel	2
Eile	<u>E</u> dit	<u>V</u> iew	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 <u>n</u> ew updates: Every day 💌 <u>a</u> t 3:00 AM 💌	
			Recommended updates	
	Give me recommended updates the same way I receive important updates			
			Who can install updates	
			Allow all users to install updates on this computer	
			Note: Windows Update might update itself automatically first when checking for other updates. Read our <u>privacy</u> statement online.	
			G OK Cancel	

Figure 2 Windows Update Settings

NOTE

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

- [MUST] 5 Disable Services (Go to Start > Control Panel > Administrative Tools<sup>1</sup>.):
   a Double-click Services.
  - B Right-click the Desktop Window Manager Session Manager service. In the context menu select Properties. Set the startup type to Disabled. Confirm by clicking OK.

Services (Local)	Services (Local)		
services (Local)	Services (Local)          Desktop Window Manager Session Manager         Description: Provides Desktop Window Manager startup and maintenance services	Name         DCOM Server Process Launcher         Desktop Window Manager Session Manager         DHCP         Diagn         Desktop Window Manager Session Manager Properties (Local Co         Diagn         Diagn         General Log On Recovery Dependencies         Disk C         Disk D         Disk D         Distril         Display name:         Desktop Window Manager Session Manager         Display name:         Description:         Provides Desktop Window Manager startup and maintenance services         Path to executable:         C:\Windows\System32\svchost.exe + k LocalSystemNetworkRestrict         Startup type:       Disabled         Healt       Help me configure service startup options.         Healt       Start       Stop         You can specify the start parameters that apply when you start the service from here.	Description The DCOM. Provides De o o o o o o o o o o o o o o o o o o o

Figure 3 Disable Desktop Service

- c Do the same for Application Experience service.
- d Close the Services window.
- e Close Administrative Tools.

<sup>1</sup> View the items by icon to see a list of all items.

**Configuring Windows 7** 

# [MUST] 6 Disable indexing (Go to Start > Control Panel > Indexing Options<sup>1</sup>): Click the Modify button. Clear all drives and locations. Click OK. Click Close.

	×		<b>×</b>
1 items indexed Indexing complete. Index these locations:		Change selected locations	
Included Locations	Exclude	Summary of selected locations Included Locations	Exclude
Troubleshoot search and indexing	Close	Show all locations	OK Cancel

Figure 4

Disable file indexing

<sup>1</sup> View the items by icon to see a list of all items.

## Configure your Workstation PC 2 Configuring Windows 7

- 7 Windows logon options (Start > search for 'gpedit.msc')
- [MUST] a 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 5 Local Group Policy Editor Dialog

**Configuring Windows 7** 

## [**MUST**] 8 Adjust Power Options (Start > Control Panel > Power Options<sup>1</sup>):

- a As preferred plan select High performance
- **b** Click Change Plan settings (see Figure 7 on page 23)
- 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.

5	Power Options		
	🔪 👻 🔹 Control Panel 👻 All C	Control Panel Items 🔹 Power Options 🔹 🔹 Search Control Pane	el 🖉
Eile	e <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 more about power plans
	Choose what the power button does	Preferred plans	
	Create a power plan	O Balanced (recommended)	Change plan settings
P	Choose when to turn off the display	Automatically balances performance with energy consumption on capab	ole hardware.
۲	Change when the computer sleeps	<ul> <li>High performance</li> </ul>	Change plan settings
		Favors performance, but may use more energy.	
	See also	Hide additional plans	
	Personalization	C Power saver	Change plan settings
	User Accounts	Saves energy by reducing your computer's performance where possible.	

Figure 6 Selecting a power plan

<sup>1</sup> View the items by icon to see a list of all items.

**Configuring Windows 7** 



Figure 7 Edit Plan Settings: High Performance



Figure 8 Power Options

**Configuring Windows 7** 

## [MUST] 9 Local Security Policy: (Go to Start > Control Panel > Administrative Tools)<sup>1</sup>:

- a Go to Local Security Policy.
- **b** Navigate to Security Settings > Local Policies > Security Options
- c Double-click the following policy listed in the right hand panel: Network Access: Sharing and security model for local accounts
- **d** In the displayed dialog select the following item from the drop-down list: **Classic local users authenticate as themselves**

🖥 Local Security Policy		
File Action View Help		
🗢 🔿 🞽 🖬 🗶 🖬 🛃 🖬		
a Security Settings	Policy	Network access: Sharing and security model for local accounts Pr 🔋 🗙
	Microsoft network clent: Digitally sign com Microsoft network clent: Send unencrypte Microsoft network server: Amount of fidet Microsoft network server: Digitally sign cor Microsoft network server: Server SPN targ Microsoft network server: Server SPN targ Microsoft network server: Server SPN targ Microsoft network server: Server SPN targ Network access: Do not allow anonymous si Network access: Do not allow anonymous si Network access: Do not allow storage of p Network access: Remotely accessible regis Network access: Remotely accessible regis Network access: Shares that can be Network access: Shares that can be access Network access: Shares that can be access Network access: Shares that can be access Network security: Allow Local System to us Network security: Allow Local System to us Network security: Allow Drud System NULL Network security: Configure encryption ty Network security: Configure encryption ty Network security: LAN Manage Network security: LAN Manage Network security: LAN Manage Network security: LAN Manage authentica Network security: LAN delinst isoinin result	Local Security Setting Explain Network access: Sharing and security model for local accounts Classic -local users authenticate as themselves
	Mahmork security: Minimum secsion security	OK Cancel Apply



Local Security Policy Dialog: Network

<sup>1</sup> View the items by icon to see a list of all items.

- [MUST] 10 Region and Language (Go to Start > Control Panel > Region and Language<sup>1</sup>).
  - **a** Regional options should be set to **English (United States)** from the drop-down list.

ا 🌍	Region and Languag	e	X		
Fo	Formats Location Keyboards and Languages Administrative				
	Format:				
	English (United State	s) 💌			
			1		
	Date and time form	ats			
	Short 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 nota	on mean?			
	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			
	Go online to learn abo	out changing languages and regional formats			
		OK Cancel Apply			

Figure 10 Regional and Language Options Dialog

<sup>&</sup>lt;sup>1</sup> View the items by icon to see a list of all items.

**Configuring Windows 7** 

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

🧬 Customize Format	X		
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		
Display leading zeros:	0.7		
List separator:	,		
Measurement system:	U.S.		
<u>S</u> tandard digits:	0123456789		
<u>U</u> se native digits:	Never		
Click Reset to restore the system default settings for <u>R</u> eset <u>Reset</u>			
[	OK Cancel Apply		

Figure 11 Customize Regional Dialog

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

NOTE

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



Figure 12 Regional and Language Options Dialog, Administrative Tab

**Configuring Windows 7** 

- [MUST] 11 Power Management for network devices (Go to Start > Control Panel > Network and Sharing Center<sup>1</sup>):
  - a Select Change adapter settings. Right-click Local Area Connection > Properties > Configure.
  - **b** 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	
Waming: If this is a laptop computer and you run if 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	

<sup>1</sup> View the items by icon to see a list of all items.

- [PERFORMANCE] 12 Performance options (Go to Start > Control Panel > Performance Information and Tools<sup>1</sup>):
  - a Click Adjust visual effects.
  - **b** Select Adjust for best performance.
  - **c** Save the settings.
- **[PERFORMANCE]** 13 System Properties (Go to Start > Control Panel > System<sup>1</sup>):
  - a Click Advanced system settings.
  - **b** 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.
  - c 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, in the Write debugging information section select Kernel memory dump from the drop-down list.

<sup>&</sup>lt;sup>1</sup> View the items by icon to see a list of all items.

**Configuring Windows 7** 

- d Remote tab
  - In the Remote Assistance section, clear the check box 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	
Allow Remote Assistance connections to this computer	
What happens when I enable Remote Assistance?	
Adyanced	
- Pometo Deolston	
Click an option, and then specify who can connect, if needed	
Don't allow connections to this completer	
<ul> <li>Allow connections from computers running any version of Remote Desktop (less secure)</li> </ul>	
<ul> <li>Allow connections only from computers running Remote Desktop with <u>N</u>etwork Level Authentication (more secure)</li> </ul>	
Help me choose Select Users	
OK Cancel <u>A</u> pply	

## [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:
    - 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
    - Music: Don't display this item
    - Network
    - Open submenus 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 with 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

**Configuring Windows 7** 

Customize Start Menu	×
You can customize how links, icons, and menus look and behave on the Start menu.	
Control Panel	
Display as a link	
O Display as a menu	
<ul> <li>Don't display this item</li> </ul>	
Default Programs	
Devices and Printers	
Documents	
Display as a link	
Display as a menu	
On't display this item	
🗼 Downloads	
Display as a link	
Display as a menu	
On't display this item	
Enable context menus and dragging and dropping	
Favorites menu	
🖉 Games	-
- Start menu eize	
	a
Number of recent programs to display:	3
Number of recent items to display in Jump Lists:	Ξ
Use Default Settings OK Cancel	

Figure 13 Start Menu configuration

### [OPTIONAL] 15 Welcome Center (Start > search for 'gpedit.msc'):

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



Figure 14 Local Group Policy Editor Dialog

**Configuring Windows 7** 

- [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.
  - Select Display delete confirmation dialog.

Repeat these steps for all drives of your computer.

🙀 Recycle Bin Properties	×
General	
,	_ []
Recycle Bin Location Space Available	- 11
DATA (D:) 129 GB	
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>Apply</u>	/

# **Configuring Windows 8.1**

	Some changes within this document are mandatory for OpenLAB CDS to work properly on a Windows 8.1 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.

**Configuring Windows 8.1** 

# [MUST] 1 Folder Options (Go to Start > Control Panel > Folder Options<sup>1</sup>):

- a View tab:
  - Clear Hide extensions for known file types.
  - Enable **Display the full path in the title bar**.
  - Clear Use Sharing Wizard.

Folder Options	×
General View Search	
Folder views	
You can apply the view (such as Details or Icons) that you are using for this folder to all folders of this type.	
Apply to Folders Reset Folders	
Advanced settings:	
Files and Folders	
Always show icons, never thumbnails	
<ul> <li>Display file icon on thumbnails</li> </ul>	
Display file size information in folder tips	
Display the full path in the title bar     Hidden files and folders	
Don't show hidden files, folders, or drives	
Show hidden files, folders, and drives	
<ul> <li>Hide empty drives in the Computer folder</li> <li>Hide extensions for known file types</li> </ul>	
✓ Hide folder merge conflicts ✓	
Restore <u>D</u> efaults	
OK Cancel Apply	

**b** Click **Apply to Folders** to apply these settings to all folders.

<sup>&</sup>lt;sup>1</sup> View the items by icon to see a list of all items.
[MUST] 2 Check for updates and apply all critical security patches: (Go to Control Panel > Windows Update)<sup>1</sup>

Click Check for updates.

🚰 Control Panel\All Control Panel Items\Windows Update					
C	🔊 🗢 🦉 🔹 Control Panel 🔹 Al	l Control Panel Items + Windows Update + 🚱 Search Control Panel			
File	<u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp				
	Control Panel Home	Windows Update	0		
	Check for updates				
	Change settings	Check for updates for your computer			
	View update history	Always install the latest updates to enhance your computer's security and			
	Restore hidden updates	performance.	_		
	Updates: frequently asked questions	Check for updates			
		Most recent check for updates: Never			
		Updates were installed: Never			
	See also	rou receive updates: For windows only.			
	Installed Updates	Set updates for other Microsoft products. Find out more			
2	Windows Anytime Upgrade	det apartes for other miclosoft produces. Find out note			

[MUST] 3 Go to Start > Control Panel > System and Security, and register Windows 8.1 with Microsoft.

**Configuring Windows 8.1** 

[MUST] 4 Settings for updates (Go to Start > Control Panel > Windows Update):

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					
0	0-	<b>@</b> •	All Cont	trol Panel Items • Windows Update • Change settings • 😰 Search Control Panel	2
Eile	<u>E</u> dit	<u>V</u> iew	<u>T</u> ools	Help	
	-	-	Choose When yes settings How doe	e how Windows can install updates our computer is online, Windows can automatically check for important updates and install them using these . When new updates are available, you can also install them before shutting down the computer. es automatic updating help me?	
			Recomm	Install <u>new updates</u> : Every day <u>at</u> 3:00 AM <u>new updates</u>	
				$\Box$ Give me <u>r</u> ecommended updates the same way I receive important updates	
			Who car	n install updates	
			Note: W stateme	<i>indows</i> Update might update itself automatically first when checking for other updates. Read our <u>privacy</u> <u>int online</u> .	
				<b>W</b> OK Cancel	

Figure 15 Windows Update Settings

NOTE

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

## [MUST] 5 Disable the Application Experience service (Go to Start > Control Panel > Administrative Tools<sup>1</sup>):

- a Double-click Services.
- b Right-click the Application Experience service. In the context menu select Properties. Set the startup type to Disabled. Confirm by clicking OK.

<u>,</u>			Services	- 0 ×		
File Action View	File Action View Help					
🌼 Services (Local)	Services (Local)					
	Application Experience	Name	Description Status Startup Type Log On As	^		
	Start the service	ActiveX Installer (AxInstSV)	Application Experience Properties (Local Computer)			
	Description	Application Host Helper Ser	General Log On Recovery Dependencies			
	Processes application compatibility	Application Information	Service name: AeLookupSvc			
	they are launched	Application Layer Gateway Application Management	Display name: Application Experience			
		ASP.NET State Service	Description: Indeeses application Companying Caller requests for applications as they are launched			
		Background Tasks Infrastru	Path to executable: CNWINDOWS/setam 32/sectors at patence			
		Base Filtering Engine BitLocker Drive Encryption	Startup type: Disabled			
		Block Level Backup Engine	Help me configure service startup options,			
		BranchCache	Senine statue - Gronad			
		Certificate Propagation CNG Key Isolation	Start Stop Pause Resume			
		COM+ Event System	You can specify the start parameters that apply when you start the service			
		Computer Browser	from here.			
		🤐 Credential Manager 🍓 Cryptographic Services	Start parameters:			
		DCOM Server Process Laun	OK Cancel Apply			
		Cevice Install Service				
		Device Setup Manager     DHCP Client	Enables the Manual (Trig Local Syste Registers an Running Automatic Local Service			
		Diagnostic Policy Service	The Diagno Running Automatic Local Service			
		🔍 Diagnostic Service Host	The Diagno Running Manual Local Service			
		🔍 Diagnostic System Host	The Diagno Running Manual Local Syste			
		🔍 Distributed Link Tracking Cl	Maintains li Running Automatic Local Syste			
		Distributed Transaction Co	Coordinates Manual Network S			
		S DNS Client	The DNS Cli Running Automatic (T Network S			
		Encrypting File System (EFS)	Provides th Manual (Trig Local Syste			
		G Enpower	Sleep is goo Running Automatic Local Syste			
		Extensible Authentication P	The Extensi Manual Local Syste			
		A Family Safety	This service Manual Local Service			
		Carling Line and Carrier	Endoles you Manual Network S			
		E Forefront Identity Manager	Forefront Id Rupping Automatic Network S			
		Eunction Discovery Provide	The FDPHO Manual Local Service			
		Function Discovery Resourc	Publishes th Manual Local Service	~		
	Extended Standard					
6 🚞	<b>Q</b> .		▲ 📭 🗐 ()) ENG	17:29 25-10-2013		

**Configuring Windows 8.1** 

## [MUST] 6 Disable indexing (Go to Start > Control Panel > Indexing Options<sup>1</sup>): Click the Modify button. Clear all drives and locations. Click OK. Click Close.

lndexing Options	ß	🥪 Indexed Locations	<b>——</b>
1 items indexed Indexing complete. Index these locations:		Change selected locations          DATA (D:)         Image: Define Files         I	
Included Locations	Exdude	Summary of selected locations	
Modify @Advanced How does indexing affect searches? Troubleshoot search and indexing	Pause Close	Included Locations	Exdude OK Cancel

Figure 16 Disable file indexing

**Power Options** 

# [**MUST**] **7** Adjust Power Options (Go to Start > Control Panel > Power Options<sup>1</sup>):

a Click Show Additional Plans.



- **b** As preferred plan select **High performance**
- c Click Change Plan settings (see Figure 7 on page 23)
- d Click Change settings that are currently unavailable.
- e Set the option Put the computer to sleep to Never.

\$	Edit Plan Settings				
۲	🕣 👻 ↑ 🗃 > Control Panel → All Control Panel Items → Power Options → Edit Plan Settings				
Eile	<u>File Edit V</u> iew Iools <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: Turn off the display: Turn off the computer to sleep: Never				
	Change advanced power settings Restore default settings for this plan				

**Configuring Windows 8.1** 

- f Click Change advanced power settings.
- **g** Open the nodes for **Hard disk > Turn off hard disk after**.
- **h** Click **Change settings that are currently unavailable** and set the Minutes to 0 (=Never). Click **OK**.



i Save the changes.

### [MUST] 8 Local Security Policy: (Go to Start > Control Panel > Administrative Tools)<sup>1</sup>:

- a Go to Local Security Policy.
- **b** Navigate to Security Settings > Local Policies > Security Options
- c Double-click the following policy listed in the right hand panel: Network Access: Sharing and security model for local accounts
- **d** In the displayed dialog select the following item from the drop-down list: **Classic local users authenticate as themselves**

Local Security Policy					
File Action View Help					
🗢 🔿 🙍 🖬 🗶 🗉 🖉 🖬					
🚡 Security Settings	Policy A	Network access: Sharing and security model for local accounts Pr 🎦 🗙			
Security Settings  Account Policies  Audit Policy  Audit Policy  Mindows Firewall with Advanced Security Network List Manager Policies  Public Key Polices  Software Restriction Policies  Application Control Policies  Advanced Audit Policy Configuration  Advanced Audit Policy Configuration	Policy  Policy P	Network access: Sharing and security model for local accounts Pr ? Local Security Setting Explain Network access: Sharing and security model for local accounts Classic - local users authenticate as themselves			
	Network security: LAN Manager authentica				
	Network security: Minimum section security	OK Cancel Apply			

Figure 17 Local Security Policy Dialog: Network

**Configuring Windows 8.1** 

- [MUST] 9 Region and Language (Go to Start > Control Panel > Region and Language<sup>1</sup>).
  - **a** Regional options should be set to **English (United States)** from the drop-down list.

ا 🎝	Region and Language						
Fo	Formats Location Keyboards and Languages Administrative						
	Format:						
	English (United States)						
	Date and time form	ats					
	Short 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 notat	tion mean?					
	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	i I				
	Go online to learn abo	out changing languages and regional formats	1				
		OK Cancel Apply					

Figure 18 Regional and Language Options Dialog

<sup>&</sup>lt;sup>1</sup> View the items by icon to see a list of all items.

- **b** If regional format other than **English (United States)** is used, the following settings are mandatory. The settings can be defined by clicking on the **Additional settings**... 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				
Display leading zeros:	0.7				
List separator:	,				
Measurement system:	U.S.				
<u>S</u> tandard digits:	0123456789				
<u>U</u> se native digits:	Never				
Click Reset to restore the system default settings for <u>R</u> eset <u>Reset</u>					
	OK Cancel Apply				

Figure 19 Customize Regional Dialog

**Configuring Windows 8.1** 

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

### NOTE

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



Figure 20 Regional and Language Options Dialog, Administrative Tab

- [MUST] 10 Time Zone (Go to Control Panel > Date and Time<sup>1</sup>): Choose the time zone of your machine's location.
- [MUST] 11 Power Management for network devices (Go to Start > Control Panel > Network and Sharing Center<sup>1</sup>):
  - a Select Change adapter settings. Right-click Local Area Connection > Properties > Configure.
  - **b** On the **Power Management** tab, clear all check boxes.

Intel(R) 82566DM Gigabit Network Connection Properties			
General Advanced Driver Details Power Management	1		
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			
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 carrying case.			
OK Cancel			

**Configuring Windows 8.1** 

[PERFORMANCE] 12 Performance options (Go to Start > Control Panel > Performance Information and Tools<sup>1</sup>):

- a Click Adjust visual effects.
- **b** Select Adjust for best performance.
- **c** Save the settings.
- **[PERFORMANCE] 13** System Properties (Go to Start > Control Panel > System<sup>1</sup>):
  - a Click Advanced system settings.
  - **b** 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.
  - c 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, in the Write debugging information section select Kernel memory dump from the drop-down list.

<sup>&</sup>lt;sup>1</sup> View the items by icon to see a list of all items.

- d Remote tab
  - In the Remote Assistance section, clear the check box 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					
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					
C Allow connections from computers running any version of Remote Desktop (less secure)					
<ul> <li>Allow connections only from computers running Remote Desktop with <u>N</u>etwork Level Authentication (more secure)</li> </ul>					
Help me choose Select Users					
OK Cancel <u>A</u> pply					

**Configuring Windows 8.1** 

[OPTIONAL] 14 Welcome Center (Start > search for 'gpedit.msc'):

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



Figure 21 Local Group Policy Editor Dialog

- [OPTIONAL] 15 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.
  - Select Display delete confirmation dialog.

Repeat these steps for all drives of your computer.

Recycle Bin Properties				
General				
	- 11			
Recycle Bin Location Space Available	- 11			
PROGRAMS (C:) 19.5 GB				
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				
	-1			
OK Cancel <u>Apply</u>				

# **Configuring the Antivirus Program**

Be sure to open the firewall ports listed in the Firewall Settings in the *OpenLAB CDS Network Requirements* guide.

# **NOTE** Some virus scanners might cause issues when used with OpenLAB CDS. OpenLAB CDS was tested to run with Symantec's Endpoint Protection.

In order for the OpenLAB software to function correctly, you should configure any antivirus real time protection software with the following list of folder exclusions. These folders should only be scanned while the instruments are idle and no data acquisition takes place. Refer to your specific antivirus software documentation on how to configure folder exclusions.

### NOTE

The following sections contain general information and also specific details only applicable for OpenLAB CDS ChemStation Edition (e.g. the chem32 folder).

- C:\chem32, D:\chem32, etc.
- C:\programdata\agilent
- %programfiles%\agilent
- %programfiles(x86)%\agilent
- %programfiles%\common files\agilent
- %programfiles(x86)%\common files\agilent
- %programfiles%\agilent technologies
- %programfiles(x86)%\agilent technologies
- %programfiles%\common files\agilent technologies
- %programfiles(x86)%\common files\agilent technologies
- %programfiles%\common files\agilent shared
- %programfiles(x86)%\common files\agilent shared

**Configuring the Antivirus Program** 

Process	Directory	File name
ECM upload/download (if applicable)	%temp% for Windows users (=Users' temp directory)	*.ssizip
Standard reports	%temp% for Windows users (=Users' temp directory) /chem32/core	~p3d*.tmp ~job*.tmp Hpsp100.que
CDS intelligent reports	%LOCALAPPDATA% %APPDATA% %PROGRAMDATA%	Files on: • Agilent • Agilent Technologies • Agilent_Technologies,_Inc • IsolatedStorage • Temp e.g.: C:\Users\xxxxx\ AppData\Local\ Agilent Technologies\Intelligent Reporting\ RawDataFileCache

If your antivirus software includes program or executable deny execution settings, ensure that the following program files are not denied execution. You can use the windows search feature to find the specific folder each program file is located in.

- agilentiolibrariesservice.exe
- chemmain.exe
- apg\_top.exe
- iprocsvr.exe
- iproc8491.exe
- msinsctl.exe
- httpdmsd.exe
- epcsetup.exe

# **NOTE** Depending on your specific configuration, some of the listed folders or files may not exist on your system.

# Editing the Security Settings for LC/MS and CE/MS Systems

The following sections summarize all security settings required for LC/MS and CE/MS. All other security settings are set automatically by the OpenLAB CDS Master Installer.

OpenLAB CDS 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 power users should use the same settings.

# Firewall

On PCs controlling LC/MS or CE/MS systems, it is recommended to turn off the firewall.

# **Advanced Network Settings**

The communication with the MS is sensitive to the order NICs in the Adapters and Bindings dialog.

- **1** Go to Start > Control Panel<sup>1</sup>.
  - Go to Network and Sharing Center.
- 2 Click Change adapter settings.
- **3** Press **ALT** to bring up the menu.



Editing the Security Settings for LC/MS and CE/MS Systems

4 Select Advanced Settings....

Advanced Settings	×
Adapters and Bindings Provider Order	
Connections are listed in the order in which they are accessed by network services.	
Connections:	
Image: Chemical Access connections	
Bindings for Ethemet:	
Internet Protocol Version 4 (TCP/IPv4)	-
Internet Protocol Version 6 (TCP/IPv6)	<u>۱</u>
✓ Internet Protocol Version 4 (TCP/IPv4)	
<ul> <li>Internet Protocol Version 6 (TCP/IPv6)</li> </ul>	
1	
OK Canc	el

Figure 22 Advanced Settings dialog, Adapters and Bindings tab

- 5 In the Adapters and Bindings tab (see Figure 22 on page 55):
  - 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.

Editing the Security Settings for LC/MS and CE/MS Systems



# **Install the Software**

Step 1: Run the Application 58 Step 2: Copy DVDs to a Centralized Folder for Installation (Optional) 59 Step 3: Run the System Configuration Checker 60 Step 4: Prepare Third Party Tools 62 Install Adobe PDF Reader 62 Step 5: Run the OpenLAB CDS Installation Wizard 63 License Agreement Screen 63 Installation Folder Screen 64 Installation Type Screens 64 Summary Screen 67 Post Installation Tasks 69 Enable Non-Http Activation 69 Install OpenLAB Data Analysis as Add-on or Stand-alone Application 70 What to do Next 73 **OpenLAB Shared Services Configuration** 73

The installation is automated for you by the included OpenLAB CDS Master Installer. This tool installs the various components of OpenLAB CDS. OpenLAB Data Analysis can also be installed as add-on version or standalone application.



# **Step 1: Run the Application**

To run the application for the first time on your workstation:

- 1 For the direct DVD approach, insert the OpenLAB CDS Installation disk (Disk1). The **Planning** screen starts automatically after inserting the DVD. If the installer is not launched automatically, run Autorun.inf to open this screen.
- 2 For the portable data storage device approach, insert the device in a computer USB port, navigate to \Disk1\Setup.bat and run the application to proceed to the **Planning** screen.
- **3** For the share file approach, copy all DVDs to a centralized folder as described in Step 2 below.

# Step 2: Copy DVDs to a Centralized Folder for Installation (Optional)

	Completing this step will enable you to run an uninterrupted installation directly from a folder—i.e., you will not have to load individual disks during actual installation.
	<b>1</b> From the Master Installer <b>Planning</b> screen, select <b>Installation</b> from the sidebar menu.
	$\textbf{2} \hspace{0.1in} \textbf{Select} \hspace{0.1in} \textbf{Preparation of an Installation from Network Share}.$
	<b>3</b> At the <b>Network Share</b> screen, browse to a directory and create a destination folder as follows:
NOTE	Installations into the root of a drive may cause problems during operations and are not supported.
	<b>a</b> Select the button with the three dots.
	<b>b</b> Navigate to the directory where you want to create the folder (you can navigate to a USB drive port to create the folder on a USB drive).
	c Select Make New Folder.
	<b>d</b> Type in the folder name.
	e Select <b>OK</b> . The system will return you to the <b>Network Share</b> screen, with the path displayed.
	f Select the disks you want to copy to the folder: All disks, ChemStation disks, EZChrom disks, or OpenLAB Data Analysis disks.
	g Select Start.
	<b>h</b> Follow the prompts to insert new disks as they appear.
	<b>4</b> When processing is complete, copy the files to the local drive or map the location to a network drive.
	<b>5</b> Close the application and navigate to the directory and folder you created. Open the folder.
	<b>6</b> Select the Disk1 folder, then execute Setup.bat to run the application.

The system will display the installer **Planning** screen.

3

### **3** Install the Software

**Step 3: Run the System Configuration Checker** 

# Step 3: Run the System Configuration Checker

- 1 At the Planning screen, select System Configuration Checker.
- **2** The **Site Preparation Tool** opens. Select the correct edition and setup of the OpenLAB CDS software you are installing from the drop-down list:
  - OpenLAB CDS ChemStation Edition C.01.XX
  - OpenLAB CDS EZChrom Edition A.04.XX
  - OpenLAB Data Analysis A.01.XX
- 3 Select OK.
- **4** Complete page 1 of the **Contact Information—System details** by typing in the fields provided.
  - System Location fields
  - System Information fields
  - Configuration fields

### NOTE

The regional settings must be configured to use the dot ('.') as a decimal separator.

- **5** Review the system details and make any necessary entries. The system will follow the paths specified.
- 6 Select the green check mark icon in the top left corner of the screen to begin the software check. A summary report is displayed showing the results for each check category. Results are expressed as **Pass**, **Warning**, **Critical Warning**, or **Fail**.

**Fail** results must be corrected before continuing with the installation. Agilent recommends investigating and correcting any **Critical Warnings** and **Warnings** whenever possible before proceeding.

# **NOTE** If the firewall is controlled by security software, the Site Preparation Tool cannot read the firewall settings because of security limitations. As a consequence, the Site Preparation Tool will display **Status "Fail"** for the firewall settings.

In this case, make sure the firewall is disabled and enter the status in the Site Preparation Tool report manually.

- 7 To view details of the report, select the appropriate link: System Hardware Details, Operating System and Software Details, or Manual Verification Required.
- 8 To save the report, select the Save icon at the top left of the screen.
- **9** E-mail the saved report to your Agilent Service Representative for evaluation, and for validation of your personal computer for Agilent Software Systems Installs.

# **Step 4: Prepare Third Party Tools**

The **OpenLAB CDS Master Installer** offers a list of tools that can be installed directly from the **Installation** screen.

# **Install Adobe PDF Reader**

You need version 11 of Adobe PDF Reader to ...

- view site prep or administrative reports (such as system reports)
- use the Report Viewer feature (ChemStation Edition only)
- · view Software Verification Reports

If Adobe PDF Reader is not installed on your system, or if an older version is installed:

- **1** Select Third Party Tools and then Adobe PDF Reader.
  - a The Adobe Reader setup screen appears. Click Install to continue.
  - **b** If Adobe Reader was successfully installed, click **Finish** to exist the setup screen.

Alternatively, you can install Adobe Reader version 11 from the OpenLAB CDS installation DVDs. It is available on Disk1/Tools/Adobe Reader in four language versions (English, Japanese, Chinese and Portuguese).

Run the self-extracting exe-file of your choice and follow the instructions of the Adobe Reader XI Setup wizard.

**NOTE** If you install Adobe PDF Reader directly from the DVDs: When OpenLAB CDS users open a PDF file for the first time, they will be asked to confirm the Adobe Reader license agreement. This dialog will appear for each newly configured instrument.

# Step 5: Run the OpenLAB CDS Installation Wizard

At this point, you'll either be running your installation using the DVDs directly, or from a centralized location (USB drive or share folder). The installation steps are identical, until you start the installation wizard: you won't be prompted to load the DVDs if you are installing from a centralized location.

# License Agreement Screen

- 1 From the OpenLAB CDS Master Installer screen, select Installation.
- 2 Select OpenLAB CDS.
- **3** The **OpenLAB CDS Installation Wizard** opens. Read the terms of the **License Agreement**. Master Installer provides a printable PDF of the license agreement under the **Resources** option of the main menu.
- **4** Select **I** agree with the terms and conditions. You cannot proceed with installation unless you agree to these terms.
- 5 Select Next to proceed to the Installation Folder screen.

Step 5: Run the OpenLAB CDS Installation Wizard

# **Installation Folder Screen**

**1** Type the folder name or browse to the directory where you want to store the application components.

### NOTE

Installations into the root of a drive may cause problems during operation and are not supported.

- **2** To run an installation verification as part of this installation, select **Run Software Verification**. The Software Verification Tool provides documentary evidence that your system has been built and installed correctly, and that all design specifications have been met. You can run the Software Verification Tool at a later time if you prefer (see "Run a Software Verification after Software Installation" on page 88).
- **3** Select Next to proceed to the Installation type screen.

# Installation Type Screens

- 1 Under Installation Type, select Standalone Workstation.
- 2 Select Next to proceed to the CDS Edition screen. Select the edition of your data system.
- **3** Select **Next** to proceed to the installation screens specific to your edition.

- **4** Choose the CDS edition you wish to install.
  - a If you have chosen OpenLAB CDS ChemStation Edition as your edition:
    - Under **Installation folder**, type the folder name or browse to the directory where you want to store the application components. Folder names must be entered without spaces.

## NOTE

*ChemStation* may not be installed into the same directory as the *OpenLAB CDS Shared Server* Core.

• Select the **Install OpenLAB Data Analysis** check box if you want to install this application in addition to your CDS edition. OpenLAB Data Analysis can be installed as add-on version at a later time if you prefer (see "Install OpenLAB Data Analysis as Add-on or Stand-alone Application" on page 70).

NOTE

OpenLAB Data Analysis is not supported for installations with ECM or Data Store as central data storage.

- Select the **Install IO Library** check box if you want to install the Agilent IO library suite. The suite can be installed manually at a later time if you prefer.
- **b** If you have chosen **OpenLAB CDS EZChrom Edition** as your edition:
  - Select the **Install OpenLAB Data Analysis** check box if you want to install this application in addition to your CDS edition. OpenLAB Data Analysis can be installed as add-on version at a later time if you prefer (see "Install OpenLAB Data Analysis as Add-on or Stand-alone Application" on page 70).

```
NOTE OpenLAB Data Analysis is not supported for installations with ECM or Data Store as central data storage.
```

- Confirm the installation of the print server.
- 5 Select Next to proceed to the Additional items screen.

### **3** Install the Software

Step 5: Run the OpenLAB CDS Installation Wizard

- **6** If you have not selected the **Install OpenLAB Data Analysis** check box, you have different data storage options. If you want to use *OpenLAB ECM* with your data system:
  - **a** Check the **ECM Server** option button. Type in a server name and press the **Test Connection**... button.
  - **b** The system will perform a connectivity check to verify access to a functional OpenLAB ECM server. If the connectivity check is successful, the message **Connection succeeded** appears. Click **OK** to continue. If the connectivity test fails, you will be returned to the **Additional items** screen. From here you can select **Next** to run the test again. If the test is still unsuccessful:
    - Enter a new OpenLAB ECM server and try another test.
    - Call internal support for assistance if you cannot connect to an OpenLAB ECM server.
    - You can uncheck the box and run the installation without OpenLAB ECM at this time. You will be able to add it to your data system at a later time, when a server is determined.

NOTE

The storage type **Data Store Server** is only available for Networked Workstation or higher.

7 Select Next to proceed to the Summary screen.

# **Summary Screen**

1 Review the installation settings that you have selected in the preceding steps. Select **Back** as necessary to change installation settings, or **Cancel** to cancel the installation.

**NOTE** Before starting or canceling the installation, you can save an XML file with your installation settings. This XML can then be used for a scripted installation (see "About Scripted Installation" on page 80).

2 Select Start to begin installation.

If OpenLAB CDS has been installed and uninstalled before, a warning will be shown that the system detected existing OpenLAB Shared Services database files. You can either:

- · Click Yes to create new database files.
- Click **No** to reuse existing database files. At the end of the installation, a warning will be shown about the application being already registered; you can ignore this warning.
- **3** The system performs an automated system check before it proceeds with the listed activities.

If a system check passed message appears, installation continues.

- If a system check failed message appears, you can either:
- Decline to view the system report, and continue installation.
- · View the system report, and decide to continue installation.
- View the system report and postpone installation until the problem is fixed.

NOTE

To view the system report as PDF file, Adobe PDF Reader must be installed (see "Install Adobe PDF Reader" on page 62).

· Decline to view the system report and postpone.

### **3** Install the Software

Step 5: Run the OpenLAB CDS Installation Wizard

**4** Your installation settings determine which disks need to be copied during installation. If you are installing directly from the DVDs, follow the **Insert Disk** prompts as they appear.

If you are installing from a local drive, you won't insert disks or browse to disk folders - the entire installation will run automatically, based on your installation settings.

If the **OpenLAB CDS Installation Wizard** cannot locate a necessary file (whether on a disk or in a folder), a **Disk or File not found** prompt will appear.

For disks, follow the prompts to:

- Retry using the same disk.
- Insert the correct disk (if you made an error), and select OK.
- Select **Cancel** to cancel the installation. The system will uninstall any components installed so far.

If a file in a centralized folder cannot be found, you may have to recreate the folder. See "Step 2: Copy DVDs to a Centralized Folder for Installation (Optional)" on page 59 above.

If the installation of any vital application or component fails, the installation will roll back (uninstall). If a failed component can be installed at a later time without affecting basic installation (e.g. ECM API, Driver) the installation will proceed. In this case you will be notified of any failure(s), and that further steps are necessary to fully complete installation.

- 5 If an installation verification was completed as part of this installation, review the *Software Verification Report*. If the report indicates failure, verify the computer requirements and reinstall the data system. Do not use the system until the Software Verification Report gives a 'pass' result.
- 6 Click Next to proceed to the Installed Features screen.
- 7 Click Finish to close the installation wizard.

# **Post Installation Tasks**

# **Enable Non-Http Activation**

To make sure that all the net.tcp components are properly initialized, non-http activation must be enabled.

1 Select Start > Control Panel > Programs > Programs and Features and click on Turn Windows features on or off.

The Windows Features window opens.

- 2 Expand the Microsoft .NET Framework 3.5.1 node and select the Windows Communication Foundation Non-HTTP Activation check box.
- 3 Then click OK.

### **3** Install the Software

NOTE

Install OpenLAB Data Analysis as Add-on or Stand-alone Application

# Install OpenLAB Data Analysis as Add-on or Stand-alone Application

If you have not installed OpenLAB Data Analysis together with OpenLAB CDS, you can install OpenLAB Data Analysis as an add-on to OpenLAB CDS or as a stand-alone application.

OpenLAB Data Analysis is not supported for installations with ECM or Data Store as central data storage.

- **1** Run the Master Installer.
- 2 From the Master Installer screen, select Installation.
- **3** Select **OpenLAB Data Analysis**.
- **4** The **OpenLAB Data Analysis Installation Wizard** opens. Read the terms of the **License Agreement**. The Master Installer provides a printable PDF of the license agreement under the **Resources** option of the main menu.
- **5** Select **I agree with the terms and conditions**. You cannot proceed with installation unless you agree to these terms.
- 6 Click Next to proceed to the Installation Folder screen.
- 7 If you already have installed OpenLAB CDS on your PC, OpenLAB Data Analysis will be installed as an add-on.
  - **a** To run an installation verification as part of this installation, select **Run Software Verification**. The Software Verification Tool provides documentary evidence that your system has been built and installed correctly. You can run the Software Verification Tool at a later time if you prefer.
  - **b** Click Next to proceed to the OpenLAB Shared Services Settings for Registration screen.
  - c Enter the server name and authentication provider.
  - d Click Test Connection ... to run a connectivity check.

The system will display a **Connection succeeded** message if the check is successful.

e Continue with step 10.

Install OpenLAB Data Analysis as Add-on or Stand-alone Application

- **8** If you have not installed OpenLAB CDS on your PC, OpenLAB Data Analysis will be installed as a stand-alone application.
  - **a** You can use the default folder, type a new folder name or browse to the directory where you want to install OpenLAB Data Analysis.
  - **b** To run an installation verification as part of this installation, select **Run Software Verification**. The Software Verification Tool provides documentary evidence that your system has been built and installed correctly. You can run the Software Verification Tool at a later time if you prefer.
  - c Click Next.
  - **d** Select the required installation type.

### NOTE

An installation on a networked workstation is only supported in combination with OpenLAB CDS EZChrom Edition. For this type of installation, only the Enterprise path without Advanced File Security (AFS) is supported as storage.

- 9 If you have selected Networked Workstation:
  - a Click Next.
  - **b** In the **OpenLAB Shared Services Settings for Registration** screen complete the **Server name** field.
  - **c** Select the authentication provider as set in the OpenLAB Control Panel.
  - **d** When you type in the **Server name**, the **Test Connection**... button will be activated. You can test connectivity for this server before completing the rest of this screen.
  - e Select Next. The system will perform a connectivity check for the server.

If the connectivity test fails, verify that the server name was entered correctly, without spaces, and select **Next** to run the test again. If the test is still unsuccessful, you can:

- Enter a new server and try another test.
- Call internal support for assistance if you cannot connect to a server.

When a connectivity test has run successfully, the system will proceed to the **Additional items** screen.

f In the Additional Items screen, EZChrom Enterprise Path is selected.

Install OpenLAB Data Analysis as Add-on or Stand-alone Application

- 10 Click Next to proceed to the Summary screen.
- 11 Click Start to begin installation.
- 12 When the installation is finished, click Next to proceed to the Installed Features screen.
- 13 Click Finish to close the installation wizard.
### What to do Next

The basic installation of the data system software is complete.

There is a 60-day Startup License for this system, and the expiration period starts with your first launch of an application.

To request and download your *final software license*, and add the *license file* to your system, see the *Software License Installation Guide*.

After you have acquired and installed your *final software license*, you will continue to prepare your data system for operation by end users by configuring projects, users, and instruments. This is accomplished through the *OpenLAB CDS Control Panel*.

### **OpenLAB Shared Services Configuration**

Refer to the online help for directions on how to do the following tasks.

#### **Configure Security and Storage**

- 1 Launch the OpenLAB Control Panel and navigate to Administration
- 2 Select System Configuration in the Navigation Window then click Edit System Configuration.
- **3** Configure the Authentication Provider and Network Storage Location (EZChrom only) to desired settings. When complete, the Control Panel will restart.
- **4** Log back into the Control Panel with OpenLAB System Administrator credentials.

### **Configure Users/Groups/Roles**

- 1 Launch the OpenLAB Control Panel and navigate to Administration
- **2** Select **Users** in the Navigation Window. Import/Create Users that will have access to the OpenLAB CDS Workstation.
- **3** Select **Groups** in the Navigation Window. Import or Create Groups that will have access to the OpenLAB CDS Workstation.
- 4 Select Roles in the Navigation Window. Create/edit Roles and assign Users or Groups to those Roles.

#### **Configure License Server**

**1** Select **Licenses** in the navigation window. Add a valid license file or server to activate the OpenLAB CDS Workstation Software.

#### **Configure Instruments**

- 1 Launch the OpenLAB Control Panel and navigate to Instruments.
- 2 Create and configure an Instrument.



# **Uninstall the Software**

4

About Uninstallation 76 Run the Master Installer 77 Run the OpenLAB CDS Uninstallation Wizard 78

This chapter contains information on the uninstallation by using the OpenLAB CDS Uninstallation Wizard. It also describes post uninstallation tasks that are essential if you plan to reinstall ChemStation on the same computer.





# **About Uninstallation**

#### NOTE

If the Master Installer was not used for installation, any manually installed headspace, PAL, or third party drivers must be uninstalled using the Windows Control Panel before the OpenLAB CDS can be uninstalled.

Like the installation, the uninstallation of OpenLAB CDS is automated by the OpenLAB CDS Master Installer.

For your convenience, the Master Installer uses the same user interfaces for the software uninstallation of all OpenLAB CDS configurations (standalone or networked workstation). The **OpenLAB CDS Uninstallation Wizard** under the **Maintenance** section of the Master Installer guides you through the uninstallation steps.

OpenLAB Data Analysis can be uninstalled separately (see *OpenLAB Data Analysis - Getting Started*).

Do not use the Windows uninstallation tool for uninstalling OpenLAB CDS.

NOTE

## **Run the Master Installer**

To run the Master Installer on your workstation choose one of the following approaches:

• To run the uninstallation from disk, insert the OpenLAB CDS Installation disk (Disk 1).

Autostart will automatically run Agilent.OpenLABCDSSetupFromDVD.exe and display the installer **Planning** screen.

- For the *portable data storage device* approach, insert the device in a computer USB port, navigate to \Disk1 and run Setup.bat to proceed to the **Planning** screen.
- For the *share file* approach, copy the contents to the local drive and navigate to the respective share file folder. Then navigate to \Disk1 and run Setup.bat to proceed to the **Planning** screen.

**Run the OpenLAB CDS Uninstallation Wizard** 

# **Run the OpenLAB CDS Uninstallation Wizard**

- 1 From the Master Installer **Planning** screen, select **Maintenance** from the side bar menu.
- 2 Select OpenLAB CDS Uninstallation.

The OpenLAB CDS Uninstallation Wizard opens.

**3** In the Shared Components screen, check the Uninstall Software Verification check box.

*Note:* Software Verification Tool needs to be uninstalled if you wish to re-install OpenLAB CDS at a later time

- **4** In the **Summary** screen under **Uninstallation of OpenLAB CDS Components**, there is a list of the components you want to uninstall.
- 5 Select Start to start the uninstallation.

If you want to abort the uninstallation, select  ${\sf Cancel}.$  If you want to change any settings, select  ${\sf Back}.$ 

All listed components are automatically uninstalled, one after another.

**6** When the uninstallation has finished, click **Finish** to close the uninstallation wizard.



# **Scripted Installation**

About Scripted Installation 80 Export as XML 81 Parameters and Return Codes 82 Installation, Upgrade, or Repair 85 Uninstallation 86 Logging and Tracing 86

This chapter describes the syntax and parameters for an installation or uninstallation in command line mode.



# **About Scripted Installation**

The OpenLAB CDS Master Installer supports a command line mode for installation, the so-called *scripted installation*. This mode supports installation, upgrade, repair, and uninstallation. You can execute scripted installations either manually or as part of software management systems such as LANDesk or HP CM. With the corresponding parameter (-q), the scripted installation is completely UI-less.

# **Export as XML**

NOTE

Tl pa in	ne Master Installer supports a feature to export the installation arameters into an XML file which you can then use for the scripted stallation.
Tl ca re re	his feature is also supported for upgrade and repair. However, for these uses the exported installation XML file is not appropriate. For scripted pair and upgrade, you must prepare specific XML files using the spective Master Installer wizards.
1	Launch the OpenLAB CDS Installation Wizard.
2	Follow the instructions as described under <i>Install the Software</i> in this manual.
3	When you have reached the <b>Summary</b> screen, click the icon $\textcircled{2}$ on the top right corner to export the installation parameters to XML. Save the file on a physical drive.

Installation file and XML file must not be in the same file path.

You can now use the XML file for the scripted installation.

# **Parameters and Return Codes**

### **Parameters**

You can call Agilent.OpenLAB.CDSInstaller.exe in command line mode with the following parameters:

• -*i* 

Installation, upgrade or repair

• -*u* 

Uninstallation

• -q

Silent mode - no installation or uninstallation wizard will be shown.

• -reboot

Reboot automatically after successful installation, repair, upgrade, or uninstallation. The system will reboot if the return code is either 0 or 17.

A warning message will be shown in the command prompt 10 min before the system is rebooted. In addition, a Windows dialog opens 2 min before reboot.

• KeepComponents

Optional parameter for the uninstallation process, which can contain one or more shared components that should stay on your system. Without this parameter, all OpenLAB CDS components will be removed from your system. To keep certain shared components, list the corresponding IDs from the table below in double quotes and separated by comma.

Component Name	ld
Software Verification Tool	ΙΩΤ
Microsoft SQL Server	SQLServer
IO Library	IOLibraries

ConfigurationXML="<ConfigurationXMLFilePath>"

The XML file contains all required inputs of the Master Installer to install, upgrade, or repair a certain topology (see "Export as XML" on page 81). Replace <ConfigurationXMLFilePath> with the correct file path and XML file name.

Do not enter a blank before or after the equals (=) sign. The scripted installation and uninstallation mode will not work as expected.

### **Return Codes**

NOTE

After installation, uninstallation, upgrade, or repair in the command line mode, the system will return a number code which is explained below.

Error/Return Code	Return value
Unknown (default)	-1
Success	0
CoreComponentFailure	1
NonCoreComponentFailure	2
TestConnectivityFailure	3
ExpectedWindowsInstallerNotInstalled (WI 4.5 missing)	4
ParameterMismatchError	5
CannotProceedWithFreshInstallation	6
CannotProceedWithUpgrade	7
CannotProceedWithUninstallation	8
CannotProceedWithRepair	9
CannotProceedWithReRegistration	10
ReRegistrationNotSupported	11
IncompleteTopologyFound	12

Table 3Return codes

#### **5** Scripted Installation

**Parameters and Return Codes** 

#### Table 3Return codes

Error/Return Code	Return value
InvalidUNCPath	13
MissingInstallable	14
NotAStrongPassword	15
DowngradeNotSupported	16
RestartRequired	17
RegistryCleanupError	18
InvalidInputXML	19
InvalidMode	20
SitePrepFailure	21
DatabaseConnectionFailed	22
DotNetFramework4NotInstalled	23
OLSSConnectionFailed	24
PDFReaderNotInstalled	25
AllComponentsInstallationFailed	26
SomeComponentsInstallationFailed	27
Failed	28
AddOnListEmpty	29
EULANotAccepted	30
ScriptedNotSupported	31

# Installation, Upgrade, or Repair

	In installation mode, the OpenLAB CDS Master Installer checks if .Net Framework is present on your system. If not, it will automatically be installed. Select <b>Accept</b> to agree with the license agreement.
	<ul> <li>The Master Installer evaluates the products already installed on your system. Depending on the installed components, the Master Installer will offer one of the following options:</li> <li>Start a fresh installation</li> <li>Upgrade</li> <li>Repair</li> </ul>
	If a required installable is missing, the Master Installer will create an entry in a log file, and, depending on the component type, will continue or rollback the installation. A corresponding error code will be returned in such scenarios.
Preparations	You must have copied all disks to a centralized folder (see "Step 2: Copy DVDs to a Centralized Folder for Installation (Optional)" on page 59). This step is mandatory for scripted installation.
	<b>1</b> Right-click the executable of the command prompt or Power shell prompt, and run it as administrator.
	You will get a return code for the scripted installation only if you start it as administrator.
	2 Navigate to the drive where you have saved the disks.
	For example: C:\CDS_DVD
	<b>3</b> To start the installation, call Agilent.OpenLAB.CDSInstaller.exe with the following syntax:
	Agilent.OpenLAB.CDSInstaller.exe -i ConfigurationXML=" <path file="" to="" xml="">" -q -reboot</path>
	For example:
	Agilent.OpenLAB.CDSInstaller.exe -i ConfigurationXML="c:\settings\ ConfigurationXML.xml" -q -reboot
	With this command, you start the installation wizard without a user interface, and automatically reboot the system.

# Uninstallation

**1** Right-click the executable of the command prompt or Power shell prompt, and run it as administrator.

You will get a return code for the scripted uninstallation only if you start it as administrator.

2 Navigate to the drive where you have saved the disks.

For example: C:\CDS\_DVD

**3** To start the uninstallation, call Agilent.OpenLAB.CDSInstaller.exe with the following syntax:

Agilent.OpenLAB.CDSInstaller.exe - u KeepComponents="<list of components>" - q - reboot

For Example:

Agilent.OpenLAB.CDSInstaller.exe -u KeepComponents="IQT,IOLibraries" -q -reboot

With the KeepComponents parameter, you can specify a list of shared components that you want to keep on the system (see "Parameters" on page 82). With the command given in the example, the OpenLAB CDS components Software Verification Tool (IQT) and IO Library (IOLibraries) will be kept.

### **Logging and Tracing**

All exceptions, errors and information messages are logged in the following locations:

- During installation, upgrade, or repair: under <BaseInstallDirectory>\Logs
- During uninstallation: under <User's Temp>\<Company Name>\Logs\<Log folder>\<Wizard Name>.txt



# **Optional Procedures**

6

Run a Software Verification after Software Installation 88 Upgrade OpenLAB CDS Workstation to Latest Version 89 License Upgrade 89 Upgrade a Workstation 90 Delete the Configuration Files After an Upgrade of a ChemStation 90

This chapter includes information on how to use the Software Verification Tool, and how to upgrade your OpenLAB CDS Workstation to a higher version.



**Run a Software Verification after Software Installation** 

### **Run a Software Verification after Software Installation**

The Software Verification Tool provides documentary evidence that your system has been built and installed correctly, and that all design specifications have been met.

- 1 Using your Windows operating system, go to Start > All Programs > Agilent Technologies > Software Verification Tool.
- 2 Select Qualify.

The system will run the application and generate a Software Verification Report.

**3** If the report indicates failure, verify the computer requirements and reinstall the data system.

Do not use the system until the Software Verification Report gives a 'pass' result.

## **Upgrade OpenLAB CDS Workstation to Latest Version**

### **License Upgrade**

For OpenLAB CDS A.02.01, Agilent is increasing the license version. This means that you will need to get a new license to get a new version of the software.

If you are under SMA subscription, proceed as follows to upgrade your licenses:

1 In SubscribeNet, click the Upgrade button for each host.

This upgrades the license file to license versions 1.6 for OpenLAB CDS ChemStation Edition C.01.06 and 4.6 for OpenLAB CDS EZChrom Edition A.04.06.

2 Put the new license file on your system.

If you have multiple single Workstations, repeat this step for each individual workstation.

If you use a Networked System, you only need to provide the license file once, as licenses are managed on the central OpenLAB Shared Services server.

**3** Download the OpenLAB CDS A.02.01 software from SubscribeNet and install it.

6

**Upgrade OpenLAB CDS Workstation to Latest Version** 

### **Upgrade a Workstation**

Using the Master Installer, you can easily upgrade your OpenLAB CDS Workstation to a higher version.

To upgrade your workstation to OpenLAB CDS A.02.01, perform the following steps:

- **1** From the Master Installer **Planning** screen, switch to the **Installation** screen.
- 2 Select OpenLAB CDS Installation.

If OpenLAB CDS is already installed, this automatically opens the **OpenLAB CDS Upgrade Wizard**.

In the **Summary** screen of the Upgrade Wizard, the components for the upgrade are listed.

**3** Select **Upgrading** to start the upgrade.

If an error occurs during the upgrade, an error message appears.

4 After the upgrade is finished, select Finish to close the OpenLAB CDS Upgrade Wizard.

### **Delete the Configuration Files After an Upgrade of a ChemStation**

After an upgrade of a ChemStation, configuration files for every instrument should be deleted.

- **1** Open the Windows Explorer on the instrument controller (Stand-alone Workstation, Networked Workstation, or AIC).
- **2** Navigate to the ChemStation installation folder.

By default, this folder is named C:\Chem32.

- **3** Make sure all online and offline ChemStation sessions are closed.
- 4 Go into each of the existing instrument folders (Chem32\1\, Chem32\2\, ...) and delete the files with the names Config.reg and Conf\_off.reg.
  Do not delete any other files.

### Optional Procedures 6

Upgrade OpenLAB CDS Workstation to Latest Version

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# In This Book

This installation guide is designed to help system administrators install the Agilent OpenLAB Chromatography Data System (CDS) to individual workstations quickly and correctly.

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