

# **Agilent OpenLAB Chromatography Data System (CDS)**

**ChemStation Editions**

**ChemStation AIC (M8304AA)  
Setup Guide**



**Agilent Technologies**

## Notices

© Agilent Technologies, Inc. 2010-2011

No part of this manual may be reproduced in any form or by any means (including electronic storage and retrieval or translation into a foreign language) without prior agreement and written consent from Agilent Technologies, Inc. as governed by United States and international copyright laws.

### Manual Part Number

M8304-90000

### Edition

1 / 2013

Printed in Germany

Agilent Technologies, Inc.

## Warranty

**The material contained in this document is provided "as is," and is subject to being changed, without notice, in future editions. Further, to the maximum extent permitted by applicable law, Agilent disclaims all warranties, either express or implied, with regard to this manual and any information contained herein, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. Agilent shall not be liable for errors or for incidental or consequential damages in connection with the furnishing, use, or performance of this document or of any information contained herein. Should Agilent and the user have a separate written agreement with warranty terms covering the material in this document that conflict with these terms, the warranty terms in the separate agreement shall control.**

## Technology Licenses

The hardware and/or software described in this document are furnished under a license and may be used or copied only in accordance with the terms of such license.

## Restricted Rights Legend

If software is for use in the performance of a U.S. Government prime contract or subcontract, Software is delivered and licensed as "Commercial computer software" as defined in DFAR 252.227-7014 (June 1995), or as a "commercial item" as defined in FAR 2.101(a) or as "Restricted computer software" as defined in FAR 52.227-19 (June 1987) or any equivalent agency regulation or contract clause. Use, duplication or disclosure of Software is subject to Agilent Technologies' standard commercial license terms, and non-DOD Departments and Agencies of the U.S. Government will receive no greater than Restricted Rights as defined in FAR 52.227-19(c)(1-2) (June 1987). U.S. Government users will receive no greater than Limited Rights as defined in FAR 52.227-14 (June 1987) or DFAR 252.227-7015 (b)(2) (November 1995), as applicable in any technical data.

## Safety Notices

### CAUTION

A **CAUTION** 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 damage to the product or loss of important data. Do not proceed beyond a **CAUTION** notice until the indicated conditions are fully understood and met.

### WARNING

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.

## Contents

<b>Contents</b>	<b>3</b>
<b>Introduction</b>	<b>4</b>
Who should read this guide?	4
<b>Specifications</b>	<b>4</b>
<b>Operating System Installation</b>	<b>5</b>
<b>Operating System Configuration</b>	<b>6</b>
Initial Configuration Tasks	6
Provide Computer Information	6
Update This Server	6
Customize This Server	7
Configure Windows Server® 2008 R2 Settings	8
Configure the second Hard disk	8
Disable Services	8
Adjust the Screen for best performance	8
Configure the Page file	9
To change the page file size:	9
Data Execution Prevention	9
Configure the Power Options for the computer	10
Disable Power Management on the network adapter(s)	10
<b>What to do next</b>	<b>11</b>
<b>In This Book</b>	<b>12</b>

## Introduction

### Who should read this guide?

This document details the necessary configuration steps to deploy the OpenLAB CDS ChemStation AIC Hardware (M8304AA).

This document is valid for OpenLAB CDS ChemStation Edition Rev. C.01.02 and higher.

## Specifications

**Table 1** Hardware Specifications

AIC Model	CPU	RAM	Disk Space
ML150 (P/N M8304AA)	2.00 GHz 2xQuad Core	8 GB	2x500 GB



### NOTE

The OpenLAB CDS ChemStation Instrument Controller software uses the Remote Desktop Services (RDS) role in Windows Server 2008 R2.

The usage of this role requires, in addition to the Windows Server 2008 Client Access License (CAL), a Windows Server 2008 Remote Desktop Services CAL (RDS CAL) to access any application or graphical user interface remotely hosted by Windows Server 2008 R2.

You must also have at least one Remote Desktop Services Licensing Server deployed and activated in your environment. A grace period of 120 days during which no license server is required. At the end of the grace period, remote connections will be refused.

For more information about CAL and RDS CAL requirements, see Windows Server 2008 R2 Licensing Overview.

## Operating System Installation

After booting up the server, a wizard walks you through interview questions to prepare the server for operating system installation. Follow the on-screen instructions to complete the Operating System installation.

- 1 Boot up the server.
- 2 Select **English** for the Language of the Operating System and select the Keyboard type. Click → to proceed with the next step.
- 3 In the Thank You screen, click → to proceed with the next step.
- 4 Read and agree with the Microsoft End-User License Agreement, click → to proceed with the next step.
- 5 Read and agree with the HP End-User License Agreement, click → to proceed with the next step.
- 6 In the OS Partition Screen
  - a Select Custom (475903MB)
  - b Provide an Administrator Password (e.g. 3000Hanover)
  - c Confirm the Administrator Password
  - d Click → to proceed with the next step.

### NOTE

#### Password Policy

- Minimum 8 characters
- Maximum 63 characters
- Can contain characters of the following 4 classes only  
Must contain at least 3 of the 4 classes of characters
  - a-z
  - A-Z
  - 0-9
  - `~!@#\$%^&\*()\_+={} \.:';'<>.,/
- Can't contain username, first name or last name

- 7 Read and agree with the Microsoft Software License Terms for Microsoft Windows Server® 2008 R2 Standard.
- 8 In the Operating System Contents
  - a Review all settings
  - b Click → when you are ready to proceed with the installation.

### NOTE

The server will reboot 4 times during the Operating Installation

## Operating System Configuration

Logon to Microsoft Windows Server® 2008 R2 Standard Edition using the Administrator account and the password entered in the previous steps.

After you have completed the installation of Windows Server® 2008 R2, and before you deploy the new server in your enterprise, some configuration is required to identify the computer to other computing resources on your network, secure the computer, enable administrators to perform tasks on the computer, and customize the computer by adding server roles and features.

### Initial Configuration Tasks

You can finish configuring Windows Server® 2008 R2 by performing the following three tasks, identified in the **Initial Configuration Tasks** window that is opened when the operating system installation is complete.

- **Provide computer information**
- **Update This Server**
- **Customize This Server**

**NOTE**

You can run OOBE.EXE to get back to **Initial Configuration Tasks** after selecting "**Do not show this window at logon**".

---

**NOTE**

If **User Account Control (UAC)** is switched on, some configuration steps will require active confirmation to continue.

---

#### Provide Computer Information

- 1 Activate Windows
- 2 Set time zone
- 3 Configure Networking
- 4 Provide computer name and domain (if required)

#### Update This Server

- 1 Click on **Enable automatic updating and feedback** and select **Manually configure settings**.
- 2 In Windows automatic updating section.
  - a Click on **change Setting...** button.
  - b Select **Never check for updates (not recommended)**

- 3 In Windows Error Reporting
  - a Click on change Setting... button
  - b Select **I don't want to participate, and don't ask me again** or leave the default option **Ask me about sending a report every time an error occurs** .
- 4 In the **Customer Experience Improvement Program** section, keep the default selection **Not participating**.
- 5 Click the **Close** button when finished.
- 6 Click on **Download and install updates**

**NOTE**

Your computer must have an available Internet connection to download updates, or to configure Windows automatic updating.

---

**CAUTION**

Do not download and install Internet Explorer 9, unless you use OpenLAB Data Store or OpenLAB ECM 341 only.


---

## Customize This Server

**NOTE**

Adding Roles, Features and Enabling Remote Desktop do not need to be configured at this stage. The OpenLAB CDS Master Installer will configure them during the ChemStation Instrument Controller installation.

---

- 1 Configure Windows Firewall
  - a Click on Configure Windows Firewall
  - b In the left pane, click **Allow a program or feature through Windows Firewall**.
  - c Click **Change settings** . If you're prompted for an administrator password or confirmation, type the password or provide confirmation.
  - d Under Allowed programs and features, select the check box next to **Remote Desktop**, and then use the check boxes in the columns to select the network location types you want to allow communication on.
  - e Click **OK**.

**NOTE**


If the **Change settings** button is unavailable, you might not have permissions to change some settings that are managed by your system administrator.

---

- 2 Click **Close** on the **Initial Configuration Tasks** window when finished.

## Configure Windows Server® 2008 R2 Settings

### Configure the second Hard disk

- 1 Click on  to open Server Manager.
- 2 Go to **Storage > Disk Management** and add the Disk 1 to the configuration select MBR (master Boot Record)
- 3 Right Click on **CD-ROM 0**
  - a select Change Drive Letter and Paths.
  - b Click on the **Change** button and assign **F** as drive letter.
  - c Click **Yes** in the warning windows.
- 4 Right click on **disk 1**
  - a select **New Simple Volume** and click next
  - b Select the **Max size 476937** and click next
  - c Select **D** as drive letter and click next
- 5 Format the disk with:
  - File System: **NTFS**
  - Allocation unit size: **Default**
  - Volume Label: **Data** (or any other label)
  - Check the **Perform Quick format** box

### Disable Services

- 1 In Server Manager, go to **Configuration > Services**
- 2 Stop and set the startup type of the **Application Experience** service to disabled and click **OK**.
- 3 Stop and set the startup type of the **Desktop Window Manager Session Manager** to disabled and click **OK**.
- 4 Close Server Manager.

### Adjust the Screen for best performance

- 1 Open the Control Panel using **Start > Control Panel > System and Security > System**
- 2 Click **Advanced system settings**.
- 3 On the **Advanced** tab > **Performance** section, click **Settings**
- 4 In the **Visual Effects** tab, select **Adjust for best performance**



## Configure the Page file

When you set up a 64-bit version of Microsoft Windows Server® 2008 and Microsoft Windows Server® 2008 R2, the operating system will create a page file that is auto managed (Automatically manage paging file size for all drives) in your computer.

For best performance, do not set the initial size to less than the minimum recommended size under Total paging file size for all drives. The recommended size is equivalent to 1.5 times the amount of RAM on your system. Usually, you should leave the paging file at its recommended size, although you might increase its size if you routinely use programs that require a lot of memory.

### To change the page file size:

- 1 Open the Control Panel using **Start > Control Panel > System and Security > System**
- 2 Click **Advanced system settings**.
- 3 On the **Advanced tab > Performance** section, hit the **Settings** button
- 4 Click on the **Advanced** tab
- 5 In the **Virtual memory** section click the **Change** button
- 6 Click **OK** to save your modifications.
- 7 Click **OK** to close the **System Properties** window.

For more information please read the following article from Microsoft *“How to determine the appropriate page file size for 64-bit versions of Windows Server® 2008 and or Windows 2008 R2”* (<http://support.microsoft.com/kb/2021748>)

#### NOTE

Changes made for the Virtual Memory, require a restart of the computer before they can take effect.

## Data Execution Prevention

- 1 Open the **Control Panel** using **Start > Control Panel > System and Security > System**
- 2 Click **Advanced** system settings.
- 3 On the **Advanced tab > Performance** section, hit the **Settings** button
- 4 Select the **Data Execution Prevention** tab
- 5 Enable **Turn on DEP** for essential Windows programs and services only.
- 6 Click **OK** to close the Performance options.
- 7 Click **OK** to close the System Properties window.

**Configure the Power Options for the computer**

- 1 Open the Control Panel using **Start > Control Panel > System and Security > Power Options**
- 2 Click on **Change settings that are currently unavailable**
- 3 Click **High performance**
- 4 Click **Change Plan settings**
- 5 Click **Change advanced power settings**
- 6 Open the nodes for Hard disk, Turn off hard disk after and check that Minutes are set to 0 (=Never).
- 7 Click **OK**
- 8 Save the changes

**Disable Power Management on the network adapter(s)**

- 1 Open the Control Panel using **Start > Control Panel > System and Security > System**
- 2 Click **Device Manager**.
- 3 Expand the **Network adapters** node
- 4 Double click on the listed adapter(s) and select the **Power Management** tab and deselect **Allow the computer to turn off this device to save power**.
- 5 Click **OK** and close the **Device Manager** tool.
- 6 Restart the computer

## What to do next

The operating system installation and configuration for the OpenLAB CDS ChemStation AIC is now complete. You can now deploy the OpenLAB CDS software. Follow the installation instructions as outlined in the chapter **Install the software** of the **Agilent OpenLAB CDS Distributed System Installation Guide**.

## In This Book

This document details the necessary configuration steps to deploy the OpenLAB CDS ChemStation AIC Hardware (M8304AA).

This document is valid for OpenLAB CDS ChemStation Edition Rev. C.01.02 and higher.

© Agilent Technologies 2010-2013  
1/2013



M8304-90000



**Agilent Technologies**