



Agilent OpenLAB Chromatography Data System (CDS)

EZChrom Edition

**Compatibility Guide for
Agilent Instrument
Controllers**



Agilent Technologies

Notices

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Contents

Introduction 4

Who should read this guide? 4

The Agilent OpenLAB CDS software 4

Before you begin 6

Make your AIC 5000 CDS compatible 7

Step 1: Copy the software to your flash drive 7

Step 2 : Run the software on your AIC 7

Step 3: Run the AIC Patching Tool 8

Make your AIC 7800 or 7900 CDS compatible9

Step 1: Understand PC-specific concerns 9

Step 2: Re-image your hard drive and reinstall Windows 9

Step 3: Verify prerequisites and install OpenLAB CDS 9

What to do next 10

Introduction

Who should read this guide?

This guide describes how to prepare Agilent Instrument Controller (AIC) units 5000, 7800, and 7900 for use with the OpenLAB CDS EZChrom Edition.

The preparation process differs significantly for these units:

- AIC 5000 units require re-imaging of the hard drive files using the **AIC Software and Utilities DVD**, and use of the **patching tool** to fix software deficiencies.
- AIC 7800 and 7900 units are re-imaged using **Windows XP SP3** software. The patching tool is not used, but users must verify that the units meet all software requirements for **OpenLAB CDS workstations**.

All units are made CDS-compatible **before** installation of a new OpenLAB CDS system.

The Agilent OpenLAB CDS software

The Agilent OpenLAB CDS, along with OpenLAB Electronic Lab Notebook (ELN), and OpenLAB Enterprise Content Manager (ECM) make up the Agilent OpenLAB software suite. These three integrated solutions form a system designed to grow with customers' needs, from a small standalone analytical lab through 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 4 edition-specific DVDs. Table 1 lists the DVDs you will receive for your software edition.

Table 1 OpenLAB CDS Components

Disk Name	Edition	
	ChemStation	EZChrom
OpenLAB CDS Installation	√	√
OpenLAB CDS ChemStation Core	√	
OpenLAB CDS ChemStation Drivers	√	
OpenLAB CDS EZChrom Core		√
OpenLAB CDS EZChrom Drivers		√
OpenLAB CDS Support	√	√

Before you begin

- 1 Make sure you have the necessary PC features, hardware, software and storage devices to prepare your image controller unit for OpenLAB CDS:

AIC 5000

- Windows XP or Windows Vista operating system
- DVD drive
- USB 2.0 port
- the AIC Software and Utilities DVD
- flash drive with minimum 2GB capacity

AIC 7800 or 7900

- Windows XP SP3 operating system
- Windows software DVDs supplied with unit
- OpenLAB CDS manuals for software requirements and installation instructions

- 2 **AIC 5000 only**—inspect/prepare your flash drive:

- a Check to see if your flashdrive contains any other bootable software.
- b If your flash drive contains other bootable software and you must use it for the AIC upgrade, perform a **full format** and create a **FAT32 partition** of the flash drive.
This will remove any boot partitions from the drive and make it usable for the upgrade.

Make your AIC 5000 CDS compatible

Step 1: Copy the software to your flash drive

- 1 Insert the flash drive into your PC running the **Windows XP** or **Windows Vista** operating system.
- 2 Make note of the drive name—you will need it later.
- 3 Load the **AIC Software and Utilities DVD** (P/N G6768-60007) to your PC disk drive. **Autorun** will launch the software and display the main screen.
- 4 Select the **OpenLAB CDS—EZChrom Edition** link.
- 5 On the next screen displayed, select the **AIC** link that corresponds to your AIC model number.
- 6 Select the **AIC—Re-Image to Firmware Version 15.0.3** link corresponding to your AIC model number.
- 7 Type **y** and select **enter** to confirm that you are making a bootable flash drive for the AIC.
- 8 Enter the **drive name** for your flash drive.
- 9 Select **enter**.
- 10 If the drive name you entered is correct, confirm by typing **y** in the field provided.
- 11 Select **enter**. The software will format the flash drive, making it bootable, and copy the image files to the flash drive.
- 12 Close any popup windows that may appear during this process—they won't apply to your upgrade.
- 13 When the the copying process is complete, remove your flash drive from the PC. Using the **safely remove storage device** function is recommended.

Step 2 : Run the software on your AIC

- 1 Turn on the AIC.
- 2 Press **F10** to display the **BIOS** screen.
- 3 Verify that **USB devices** is listed first on the BIOS screen (this means that the controller is set to boot from USB devices first).
If it is not, modify the list order so that **USB devices** is first.
- 4 If you made changes, select **save**.
- 5 Select **exit**.
- 6 Turn off the AIC.
- 7 Insert the flash drive into one of the two USB ports just under the keyboard/mouse ports, on the back of the AIC. Do **not** use the red or blue USB ports.
- 8 Turn on the AIC. The AIC will boot up to the flash drive. The boot process takes approximately **ten minutes**.
- 9 At the instrument controller **Welcome screen**, select option **C**,

OpenLAB CDS—EZChrom Edition.

- 10 Select **enter**. The system will display a window indicating image transfer progress. When the process is complete, you'll be returned to the previous screen.
- 11 Remove the flash drive from the AIC.
- 12 Type **exit** in the field provided, and select **enter**. The AIC will automatically reboot.

Step 3: Run the AIC Patching Tool

- 1 When the AIC has fully booted up after re-imaging, re-insert the flash drive into the USB port on the back of the AIC (**not** one of the red or blue ports). Disregard the dialog box that appears after booting up, asking whether the AIC will be used for OpenLAB or EZChrom Elite. It will disappear when you re-insert the flash drive.
- 2 If a **Systems Settings Change** screen appears asking you if you want to restart the computer, select **No**.
- 3 At the **AIC Patching Tool** screen, select **Apply Patches**.
 - Note the listing of patches that will be applied to the AIC, including .NET 3.5 SP1 installation.
 - The .NET 3.5 SP1 installation takes approximately 10 minutes and runs silently. A message will display when all patches have been applied. **Do not close** the AIC Patching Tool screen until you are prompted to do so.
- 4 When you see the message indicating that all patches have been applied, remove the flash drive from the AIC.
- 5 Close the AIC Patching Tool screen.
- 6 Reboot the AIC.

Make your AIC 7800 or 7900 CDS compatible

Step 1: Understand PC-specific concerns

The steps below include a hardware drive **re-imaging** process. Re-imaging results in the following:

- An **image file** is created of your hard drive, and saved on your hard drive.
- **Current data is removed** from your computer. This includes all installed programs.
- Your computer is **reset** to a 'newly installed' condition, with its **original settings**.

Though **User files** will be saved to a **Windows.old** folder on the hard drive, you should back up your user files before re-imaging, as a precaution. If you have any **encrypted files**, you may not be able to access them after re-imaging and reinstallation.

Step 2: Re-image your hard drive and reinstall Windows

- 1 Using your Windows operating system, go to **Start>Control Panel**.
- 2 Type **recovery** in the search box. The **Recovery** option will appear in the window.
- 3 Select **Recovery**.
- 4 Select **Advanced recovery methods**.
- 5 Select **Return Windows or your computer to original settings**.
Windows will display **one** of these two manufacturer-set options:
 - **Return your computer to the factory setting**
 - **Reinstall Windows**
- 6 Select the option, and follow the ensuing prompts. Regardless of the option provided, at some point you will have to insert the **Windows DVD** supplied to you with your PC, and follow the prompts to re-install Windows.

Step 3: Verify prerequisites and install OpenLAB CDS

- 1 When re-installation of Windows is complete, verify the system prerequisites for OpenLAB CDS workstations (e. g. .NET SPL, Windows Installer, etc.) in the OpenLAB CDS manual.
- 2 Install **OpenLAB CDS** using the manual instructions.
Your PC will now be compatible with OpenLAB CDS when it is installed to the distributed system.

What to do next

You have now upgraded your AIC for use with the OpenLAB CDS EZChrom Edition.

Now it's time to refer to the **Distributed System Installation Guide** (P/N M8203-90000) to install your new OpenLAB CDS system.

Contact your Agilent representative if you have questions about OpenLAB CDS installation.