

Agilent OpenLAB Chromatography Data System (CDS)

Hardware and Software
Requirements



Agilent Technologies

Notices

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In this Guide ...

This document details the minimum hardware and software requirements for supporting the Agilent OpenLAB Chromatography Data System (CDS) family of products. This document is valid for:

- OpenLAB CDS Shared Services A.02.01
- OpenLAB CDS ChemStation Edition C.01.06
- OpenLAB CDS EZChrom Edition A.04.06
- OpenLAB Data Analysis A.01.02

These requirements apply for full, VL, and Compact Editions of OpenLAB CDS unless otherwise stated.

Table 1 Terms and abbreviations used in this document

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

1 Introduction

This chapter contains an overview of the installation scenarios and general software requirements.

2 OpenLAB CDS ChemStation Edition

This chapter describes the requirements for workstations, instrument controllers, or clients running OpenLAB CDS ChemStation Edition.

3 OpenLAB CDS EZChrom Edition

This chapter describes the requirements for workstations, instrument controllers, or clients running OpenLAB CDS EZChrom Edition

4 Secure Workstation for OpenLAB CDS ChemStation Edition

This chapter describes the requirements for a Secure Workstation for OpenLAB CDS ChemStation Edition.

5 OpenLAB Data Analysis Stand-Alone

This chapter describes the requirements for stand-alone OpenLAB Data Analysis installations.

6 OpenLAB Shared Services Server

This chapter describes the requirements for an OpenLAB Shared Services server.

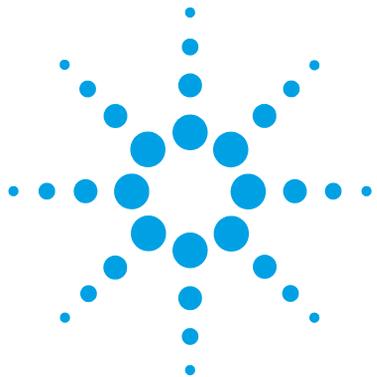
7 Licensing

This chapter contains information on the software used for licensing.

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This chapter contains an overview of the installation scenarios and general software requirements.



Agilent OpenLAB CDS

Depending on the type of installation, you may need different hardware components. The following graphics show the required components for each scenario.



Figure 1 Workstation configuration

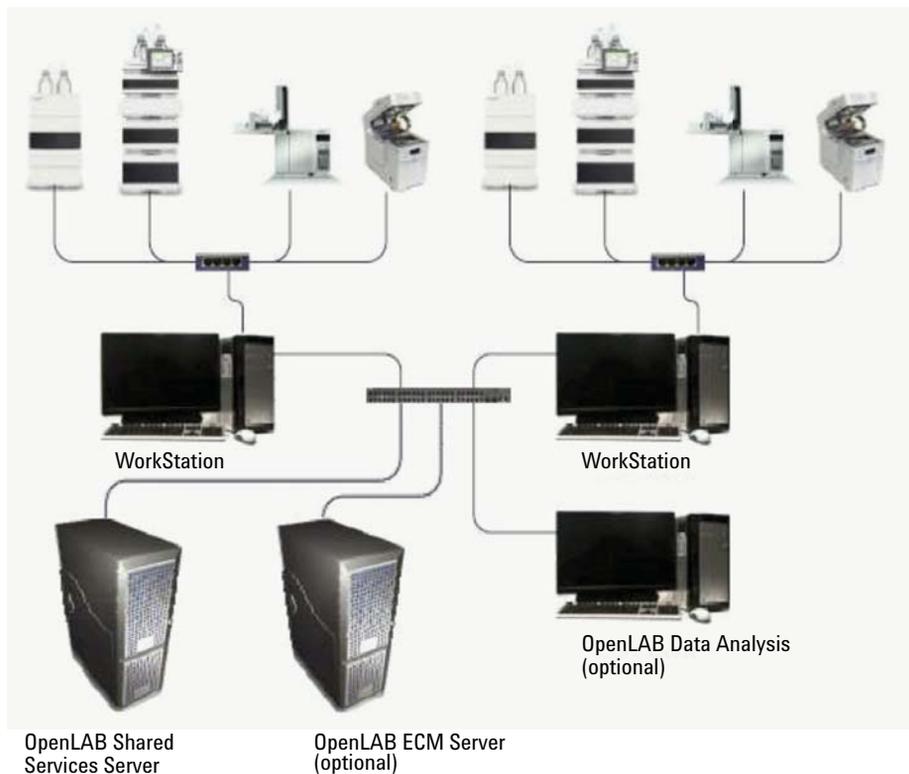


Figure 2 Networked Workstation Configuration

For an installation with OpenLAB Data Store instead of OpenLAB ECM, Data Store is installed on the OpenLAB Shared Services server.

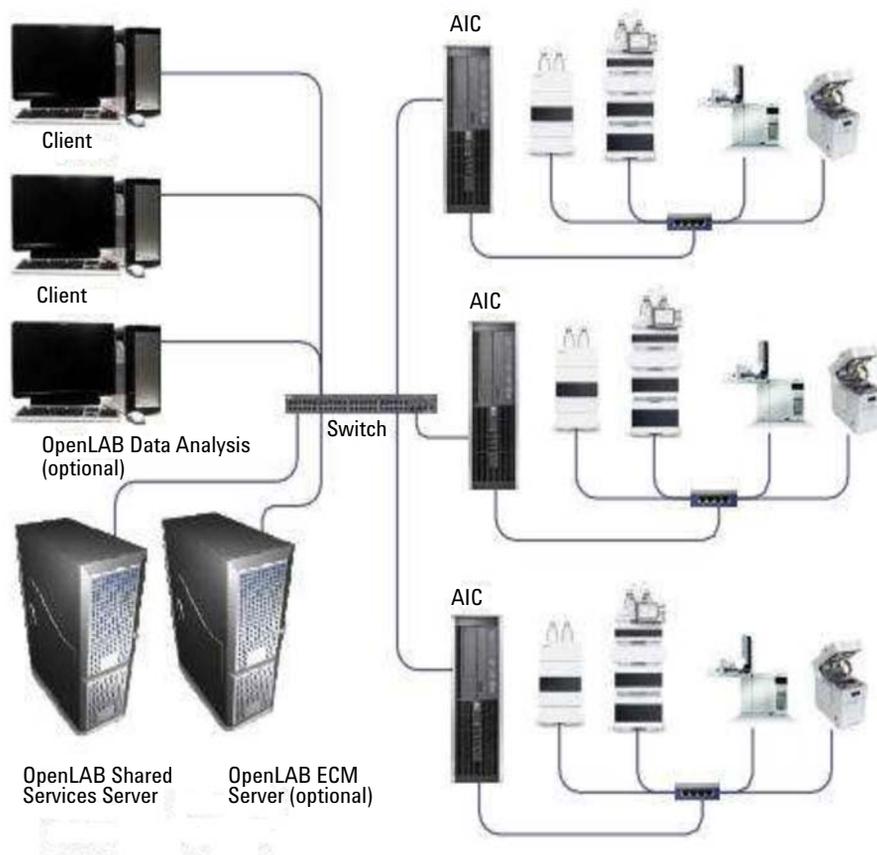


Figure 3 Distributed System Configuration

For an installation with OpenLAB Data Store instead of OpenLAB ECM, Data Store is installed on the OpenLAB Shared Services server.

General Software Requirements

The following software must be installed on any supported operating system prior to installing OpenLAB CDS components:

- *Adobe Flash*: must be installed in order to view all graphic features of the Data Store user interface.
- *Adobe PDF reader (XI)*: is required to view site prep or administrative reports, and to use the Report Viewer Feature. The PDF reader plug-in (any version) is needed to view the documentation (**Start > All programs > Agilent Technologies > OpenLAB CDS Documentation**).

NOTE

If a PDF reader is not installed on your system, you can install Adobe Reader from the OpenLAB CDS installation DVDs. It is available on Disk1\Tools\Adobe Reader in four languages (English, Japanese, Chinese and Portuguese).

- *Browser*: A browser must be installed (e.g. IE 9 or 10) to open the **OpenLAB CDS Documentation** page.

Compatibility with other Agilent Software Packages

ECM Product Versions

In order for OpenLAB CDS to use ECM as a file storage location, you will need one of the following ECM product revisions:

- OpenLAB ECM Server 3.3.2 SP1 Hotfix03. Internet Explorer 8 (32bit) for the web client.
- OpenLAB ECM Server 3.4.1 SP1 with latest hotfix. Internet Explorer 8, 9, or 10 (32bit) for the web client.

Data Store Product Versions

In order for OpenLAB CDS to use Data Store as a file storage location, you will need OpenLAB Data Store A.02.01.

Internet Explorer 9, 10, or 11 must be installed on any supported operating system prior to installing OpenLAB Data Store components. Active scripting needs to be enabled for accessing the Data Store website.

Language Compatibility

EZChrom Edition

The English version of OpenLAB CDS EZChrom Edition is validated on Windows English and Western European language operating systems.

Localized versions of OpenLAB CDS are supported on localized language versions of Windows, using default system fonts:

- Chinese: Simsun
- Japanese: MS UI Gothic
- Brazilian Portuguese: MS Sans Serif (Workstations only)

Non-localized instrument drivers are supported, and will appear in English even when running localized versions of OpenLAB CDS.

ChemStation Edition

Localized versions of OpenLAB CDS ChemStation Edition Workstations are supported on localized language versions of Windows, using default system fonts:

- Chinese: Simsun
- Japanese: MS UI Gothic

The English version of ChemStation Edition is supported also on Russian versions of Windows (Windows 7 64bit).

ChemStation Edition Agilent Instrument Controllers (AICs) and their clients are supported only on English operating systems.

Data Analysis

Localized versions of OpenLAB CDS Data Analysis are supported on localized language versions of Windows, using default system fonts:

- Chinese: Microsoft Yahei
- Japanese: Arial

Important Notes

Instruments

Unless otherwise stated, workstations, clients and Agilent instrument controllers listed above are tested and supported with any combination of 4 instruments (LCs containing PDA/DAD count as 2 instruments) with up to one Headspace or PAL Sampler running simultaneously.

Disk Space

Disk space requirements should be adjusted based on the number and type of instruments and archival periodicity. Agilent recommends a period of expected disk usage one year beyond the recommendation of the operating system.

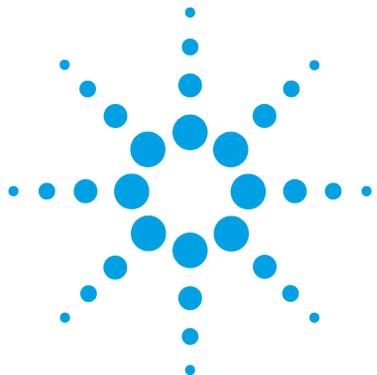
Typical file sizes for reference:

- 2D data: 60 min, 10 Hz, 2 channel data ~600 Kb
- 3D data: 60 min, 10 Hz, 5 channel plus spectra at 1nm resolution from 200- 400 nm ~300 Mb
- LC/MS data: 60 min, scan mode ~30 MB

Dedicated Servers

For the server-based products (OpenLAB Shared Services Server, OpenLAB CDS ChemStation Edition AIC) Agilent recommends dedicated servers to avoid conflicts with other applications and optimize performance.

1 Introduction
Important Notes



2 OpenLAB CDS ChemStation Edition

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This chapter describes the requirements for workstations, instrument controllers, or clients running OpenLAB CDS ChemStation Edition.



ChemStation Edition: Networked Workstation or Workstation Stand-Alone

Hardware

Table 2 Minimum hardware configuration (ChemStation workstations)

Item	HW requirements
Processor speed (CPU)	3 GHz Dual Core
Physical memory (RAM)	4 GB
Hard disc	160 GB
Video	17 " 1280x1024 (SXGA) 19 " 1440x900 recommended
Mouse	Microsoft Windows compatible pointing device
Removable media	DVD drive
Network	100/1000 LAN

Number of Instruments

There is a limit to the number of instruments (for example, GCs, LCs or CEs) that can be configured on an OpenLAB CDS ChemStation Edition workstation:

- GC, LC (2D): 4 instruments
- LC (3D): 2 instruments
- CE: 2 instruments
- LC/MS, CE/MS: 1 instrument

Each instrument can consist of several modules, as in the case of Agilent modular LC systems. The theoretical maximum number of modules is 31; the recommended maximum number is 14.

Software

Table 3 Software for OpenLAB CDS ChemStation Edition workstations

Component	Details
Operating system	Windows 7 <ul style="list-style-type: none"> • Enterprise or Professional • 32 or 64bit
	Windows 8.1 <ul style="list-style-type: none"> • Enterprise or Professional • 32 or 64bit
Microsoft Report Viewer Redistributable	For ChemStation Intelligent Reporting: Microsoft Report Viewer Redistributable 2008

Agilent Instrument Controller (AIC) for ChemStation Edition

Hardware

Table 4 Minimum hardware configuration for ChemStation Edition AIC

Item	HW requirements
Processor speed (CPU)	2x Quad Core 2 GHz
Physical memory (RAM)	12 GB
Hard disc	2x 250 GB
Video	17 " 1280x1024 (SXGA) minimum 19 " 1440x900 ¹
Mouse	Microsoft Windows compatible pointing device ¹
Removable media	DVD drive
Network	100/1000 LAN ²

¹ Only for installation and administration.

² A second LAN interface is recommended to isolate the instrument's data traffic.

AIC Bundles

The following Agilent Instrument Controller supports installation of OpenLAB CDS ChemStation Edition and is provided as a bundled system.

Table 5 Agilent Instrument Controller that supports installation of OpenLAB CDS ChemStation Edition

AIC model	CPU	RAM	Hard disc
ML350e (P/N M8304AA)	2.2 GHz 2x Quad Core	16 GB	2x500 GB

Number of Supported Instruments

There is a limit to the number of instruments (for example, GCs, LCs or CEs) that can be configured on an OpenLAB CDS ChemStation Edition AIC:

- GC, LC (2D): 10 instruments
- LC (3D), CE: 5 instruments
- LC/MS, CE/MS: 2 instruments

One LC/MS Single Quad instrument is equivalent to four 2D LC instruments. A single AIC can handle two LC/MS Single Quad instruments and two 2D LC instruments or two LC/MS Single Quad instruments with one 3D LC instrument.

NOTE

On Agilent Instrument Controllers (AICs), OpenLAB ChemStation Edition supports instruments and modules connected exclusively via LAN. (GPIB, RS232, USB or any converter are not supported on AICs.)

There is no limit to the number of AICs in a distributed system.

Software

Table 6 Supported Software for OpenLAB CDS ChemStation Edition AICs

Component	Details
Operating System	Windows Server 2008 (64bit) R2 SP1
Microsoft Report Viewer Redistributable	For ChemStation Intelligent Reporting: Microsoft Report Viewer Redistributable 2008

Virtualization

Agilent Instrument Controllers for ChemStation Edition can be virtualized using VMware VSphere 4.x or VSphere 5.x. For more information, see TechNote *Virtualizing Agilent OpenLAB CDS ChemStation Edition with VMware*.

Client for ChemStation Edition in a Distributed System

NOTE

For troubleshooting purposes, it is highly recommended to have at least one Agilent ChemStation bundle PC operating as an OpenLAB CDS ChemStation client. This PC should be kept as a reference to identify client PC hardware-related display and performance problems.

Hardware

Table 7 Minimum hardware configuration for ChemStation clients in a Distributed System

Item	HW requirements
Processor speed (CPU)	3 GHz Dual Core
Physical memory (RAM)	4 GB
Hard disc	160 GB
Video	17 " 1280x1024 (SXGA) 19 " 1440x900 recommended
Mouse	Microsoft Windows compatible pointing device
Removable media	DVD ROM (12x)
Network	100/1000 LAN

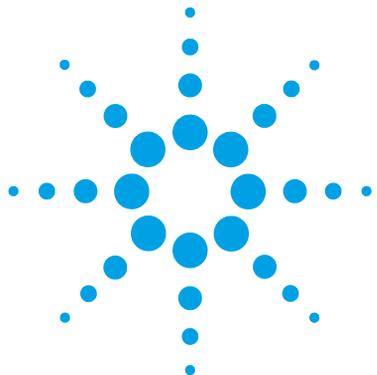
Software

Table 8 Supported Operating Systems for OpenLAB CDS ChemStation Edition clients

Operating System	Details
Windows 7	<ul style="list-style-type: none">• Enterprise or Professional• 32 or 64bit
Windows 8.1	<ul style="list-style-type: none">• Enterprise or Professional• 32 or 64bit

2 OpenLAB CDS ChemStation Edition

Client for ChemStation Edition in a Distributed System



3 OpenLAB CDS EZChrom Edition

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This chapter describes the requirements for workstations, instrument controllers, or clients running OpenLAB CDS EZChrom Edition



Workstations or Clients for EZChrom Edition

Hardware

Table 9 Minimum hardware configuration (EZChrom workstations, EZChrom clients)

Item	HW requirements
Processor speed (CPU)	3 GHz Dual Core
Physical memory (RAM)	4 GB
Hard disc	160 GB
Video	17 " 1280x1024 (SXGA) 19 " 1440x900 recommended
Mouse	Microsoft Windows compatible pointing device
Removable media	DVD drive
Network	100/1000 LAN

Number of Instruments

There is a limit to the number of instruments that can be configured on an OpenLAB CDS EZChrom Edition workstation:

- GC, LC (2D): 4 instruments
- LC (3D): 2 instruments

Software

Table 10 Supported Operating Systems for OpenLAB CDS EZChrom Edition workstations and clients

Operating System	Details
Windows 7	<ul style="list-style-type: none"> • SP1 • Enterprise • 32 or 64bit
Windows 8.1	<ul style="list-style-type: none"> • Enterprise or Professional • 32 or 64bit
For clients only: Windows Server 2008 R2	<ul style="list-style-type: none"> • SP1

Virtualization

EZChrom workstations and clients can be virtualized using VMWare vSphere 4.x or vSphere 5.x. For more information, see TechNote *Virtualizing Agilent OpenLAB CDS EZChrom Edition with VMware*.

Agilent Instrument Controller (AIC) for EZChrom Edition

Hardware

Table 11 Minimum hardware configuration for an EZChrom AIC

Item	HW requirements
Processor speed (CPU)	3 GHz Dual core
Physical memory (RAM)	4 GB
Hard disc	160 GB
Video	17 " 1280x1024 (SXGA) 19 " 1440x900 recommended
Mouse	Microsoft Windows compatible pointing device
Removable media	DVD drive
Network	2 LAN cards 100/1000 LAN

Instrument Controllers

Operating System Windows 7

The following table lists the Agilent Instrument Controllers with Operating System Windows 7 32bit that support installation of OpenLAB CDS EZChrom Edition and are provided as a bundled system.

Table 12 Agilent Instrument Controllers with Operating System Windows 7 32bit

AIC model	CPU	RAM	Disk space
Z210	3.10 GHz Quad-Core	4 GB	250 GB
Z220	3.20 GHz Quad-Core	4 GB	250 GB
Z230	3.20 GHz Quad-Core	4 GB	500 GB

AICs must be updated to meet minimum memory requirements as needed.

Operating System XP

Table 13 Agilent Instrument Controllers with Operating System Windows XP

AIC model	CPU	RAM	Disk space
7800	2.3 GHz Dual-Core	2 GB	135 GB
7900	3.0 GHz Dual-Core	2 GB	232 GB (2x116)
8000	3.16 GHz Dual-Core	4 GB	250 GB

Agilent instrument controllers revisions A and B, and AIC 5000 are not supported for use with Agilent OpenLAB CDS.

Since Windows XP is not supported with OpenLAB CDS A.02.01, you need to consider one of the following two options to be able to use an AIC model currently running Windows XP with OpenLAB CDS A.02.01:

- Upgrade to Windows 7 (32bit).
- Keep using the 7800, 7900, or 8000 AIC with Windows XP and OpenLAB CDS EZChrom Edition A.04.05, but connect your AIC to an OpenLAB CDS A.02.01 Shared Services server (part of OpenLAB CDS A.02.01).

This mode supports using OpenLAB CDS EZChrom Edition A.04.05 clients with the OpenLAB CDS EZChrom Edition A.04.05 AIC. It enables the parallel use of OpenLAB CDS EZChrom Edition A.04.05 AICs and OpenLAB CDS EZChrom Edition A.04.06 AICs.

Contact your Agilent Support representative for more information.

Number of Supported Instruments

There is a limit to the number of instruments that can be configured on an Agilent Instrument Controller (AIC) with EZChrom Edition:

- GC, LC (2D): 4 instruments
- LC (3D): 2 instruments

NOTE

Only one instrument per AIC should be used for GPIB connections.

NOTE

On Agilent Instrument Controllers (AICs), OpenLAB EZChrom Edition running on Microsoft Windows 2008 R2 does not support instruments and modules connected via GPIB and SCSI.

There is no limit to the number of AICs in a distributed system.

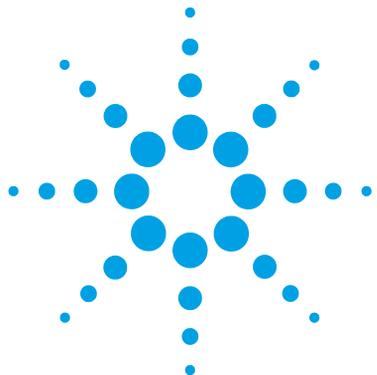
Software

Table 14 Supported Operating Systems for OpenLAB CDS EZChrom Edition AICs

Operating System	Details
Windows 7	<ul style="list-style-type: none">• SP1• Enterprise• 32 or 64bit
Windows 8.1	<ul style="list-style-type: none">• Enterprise or Professional• 32 or 64bit
Windows Server 2008 R2	SP1

Virtualization

Agilent Instrument Controllers for EZChrom Edition can be virtualized using VMWare vSphere 4.x or vSphere 5.x. For more information, see TechNote *Virtualizing Agilent OpenLAB CDS EZChrom Edition with VMware*.



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Secure Workstation for OpenLAB CDS ChemStation Edition

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Software 33

This chapter describes the requirements for a Secure Workstation for OpenLAB CDS ChemStation Edition.



Hardware

Table 15 Minimum hardware configuration for Secure Workstation

Item	HW requirements
Processor speed	3 GHz quad core
Physical memory	16 GB
Hard disc	4 x 500 GB or 2 x 1TB
Video	17 " 1280x1024 (SXGA) 19 " 1440x900 recommended
Mouse	Microsoft Windows compatible pointing device
Removable media	DVD drive
Hardware	100/1000 LAN

Number of Instruments

There is a limit to the number of instruments that can be configured on a Secure Workstation:

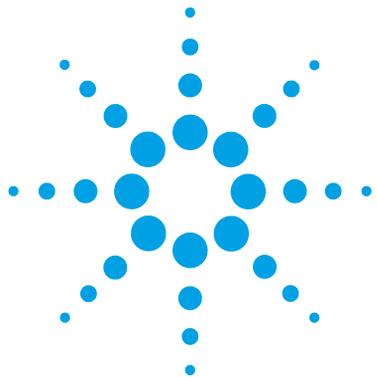
- LC, GC, CE, A/D, SFC: 2 instruments
- LC/MS, CE/MS: 1 instrument

Software

Table 16 Software for Secure Workstation

Component	Version
Operating System	Windows 7 <ul style="list-style-type: none">• Enterprise or Professional• 64bit• English US, Japanese, or Chinese
Internet Explorer	<ul style="list-style-type: none">• 9.0 (32bit)or• 10.0 (32bit)
Data Store	A.02.01
PostgreSQL	9.0.12
Microsoft Report Viewer Redistributable	Microsoft Report Viewer Redistributable 2008

4 Secure Workstation for OpenLAB CDS ChemStation Edition Software



5 OpenLAB Data Analysis Stand-Alone

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Software 36

This chapter describes the requirements for stand-alone OpenLAB Data Analysis installations.



Hardware

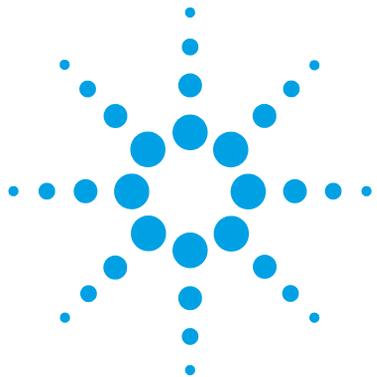
Table 17 Minimum hardware configuration (ChemStation workstations)

Item	HW requirements
Processor speed (CPU)	3 GHz Dual Core
Physical memory (RAM)	4 GB
Hard disc	160 GB
Video	17 " 1280x1024 (SXGA) 19 " 1440x900 recommended
Mouse	Microsoft Windows compatible pointing device
Removable media	DVD drive
Network	100/1000 LAN

Software

Table 18 Supported Operating Systems for OpenLAB Data Analysis standalone workstations

Operating System	Details
Windows 7	<ul style="list-style-type: none">• SP1• 32 or 64bit
Windows 8.1	<ul style="list-style-type: none">• 32 or 64bit



6 OpenLAB Shared Services Server

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Databases 39

This chapter describes the requirements for an OpenLAB Shared Services server.



Hardware

Table 19 Minimum hardware configurations for Shared Services Server

Item	HW requirements
Processor speed (CPU)	3 GHz Dual core
Physical memory (RAM)	4 GB (32-bit) 6 GB (64-bit)
Hard disc	160 GB
Screen resolution	17": 1024x768 (SXGA) 19": 1440x900 ¹
Mouse	Microsoft Windows compatible pointing device ¹
Removable media	DVD drive
Network	100/1000 LAN

¹ Only for installation and administration.

Software

Table 20 Software for an OpenLAB Shared Services server

Component	Details
Operating system	Windows Server 2008 R2 SP1

Databases

Agilent OpenLAB Shared Services manage information using a database. The database is installed and configured automatically during OpenLAB CDS workstation installation.

When deploying networked system configurations, the database requires additional installation to ensure acceptable performance of the system.

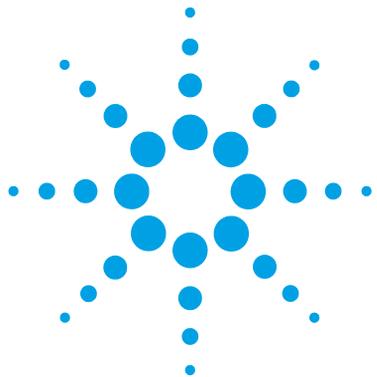
Table 21 Supported software for hosting shared services database

Database type	Details
PostgreSQL	9.0.12
SQL Server	2008 R2 SP1 and SP2 (64bit) Standard or Enterprise
Oracle	11g Standard or Enterprise

NOTE

It is strongly recommended that you store database files and transaction logs (when applicable) on physically exclusive hard drives.

6 OpenLAB Shared Services Server Databases



7 Licensing

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This chapter contains information on the software used for licensing.



Supported Software

Agilent OpenLAB CDS supports the use of a central licensing server for the distribution and tracking of license entitlements. The following software is supported for this purpose:

- Flex-Net Publisher v. 11.1

This software is installed with the installation of OpenLAB Shared Services Server components (that is, on the OpenLAB Shared Services server and on stand-alone OpenLAB CDS workstations).

Windows Server 2008 Licensing

OpenLAB CDS ChemStation Edition Distributed Systems are taking advantage of Microsoft Remote Desktop Services. In addition to the Client Access Licenses, this technology requires additional licenses called Remote Desktop Services Client Access License (RDS CAL).

Client Access License (CAL)

A Client Access License permits client computers to connect to Microsoft server hosting shared resources.

Remote Desktop Services CAL (RDS CAL)

The OpenLAB CDS ChemStation Instrument Controller (AIC) software uses the Remote Desktop Services (RDS) role in Windows Server 2008 R2 SP1. Using this role requires a Windows Server 2008 Remote Desktop Services CAL (RDS CAL), in addition to the Windows Server 2008 Client Access License (CAL), to access any application or graphical user interface remotely hosted by Windows Server 2008 R2 SP1.

You need at least one Remote Desktop Services Licensing Server deployed and activated in your environment. During a grace period of 120 days no license server is required. At the end of the grace period, remote connections will be refused.

Both the Client Access License (CAL) and Remote Desktop Services CAL (RDS CAL) can apply to a device or to a user.

For more information about CAL and RDS CAL requirements, see:

- Client Access Licenses and Management Licenses (<http://www.microsoft.com/licensing/about-licensing/client-access-license.aspx>)
- Understanding Remote Desktop Licensing (<http://technet.microsoft.com/en-us/library/cc772298.aspx>)

In This Book

This document details the minimum hardware and software requirements for supporting the Agilent OpenLAB Chromatography Data System (CDS) family of products. This document is valid for:

- OpenLAB CDS Shared Services A.02.01
- OpenLAB CDS ChemStation Edition C.01.06
- OpenLAB CDS EZChrom Edition A.04.06
- OpenLAB Data Analysis A.01.02

These requirements apply for full, VL, and Compact Editions of OpenLAB CDS unless otherwise stated.

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