

## Agilent OpenLAB CDS 2.1 Workstation Site Prep Checklist

Thank you for purchasing Agilent software.

Correct site preparation and evaluation is the key first step in assuring that the installation of your Agilent software product is successful and that your instruments and software systems operate reliably over an extended lifetime. The information provided in this document can be used as an information guide AND checklist that outlines the computing requirements for your site. It may also recommend tools where needed, that will help you get started.

### **Customer Responsibilities**

Make sure your site meets the following specifications prior the installation date.

- Your site meets the software, hardware and networking specifications as outlined below
- Computing environment and the necessary space is made available
- The number and location of electrical outlets and network ports for your computer systems, peripherals and instruments are planned.
- Locate your sales order information such as software authorization codes, software licenses or software certificates.
- The necessary software media are available.
- A suitable backup solution is identified for your software.
- A system or network administrator is available as needed to connect to your intranet.
- Complete Final Check: Software Site Preparation Tool.

Please visit the following Agilent website to download the Software Installation Site Preparation Tool: <http://www.agilent.com/en-us/support/software-informatics/swsitepreptool>

This easy- to- use tool verifies that your PC meets the necessary hardware and software pre-requisites before installing the Agilent software.

If Agilent is delivering installation and familiarization services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.

### **Important Customer Information**

- If you have questions or problems in providing anything described as Customer Responsibilities above, please contact your local Agilent or partner support/service organization for assistance prior to delivery. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.
- Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
- Other optional services such as additional training, operational qualification (OQ) and consultation for user- specific applications may also be provided at the time of installation when ordered with the system, but should be contracted separately.

**Agilent OpenLAB CDS 2.1 Workstation  
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**Software Specifications for OpenLAB CDS 2.1 Workstation**

Specification Description	Support Statement
Operating System (OS)	<ul style="list-style-type: none"> <li>Windows 7 SP1, Enterprise or Professional, 64bit</li> <li>Windows 8.1, Enterprise or Professional, 64bit</li> <li>Windows 10, Enterprise or Professional, 64bit</li> </ul>
The following localized versions of Windows operating systems may be used	<ul style="list-style-type: none"> <li>English</li> <li>Western European language versions (CDS software will always appear in English). Which language:</li> <li>Chinese (Non-localized instrument drivers are supported and will always appear in English)</li> <li>Japanese (Non-localized instrument drivers are supported and will always appear in English)</li> <li>Brazilian Portuguese (Non-localized instrument drivers are supported and will always appear in English)</li> </ul>
Domain connectivity	optional for workstations
OS .NET & other Add-ins	<ul style="list-style-type: none"> <li>.NET 4.5 SP1 (Installed by OpenLAB 2.0 Installer, launch if needed); and</li> <li>.NET 3.5.1 must be enabled on systems running on Microsoft Windows 8.1, Windows 10, or Windows Server 2012 R2</li> </ul>
Drives	NTFS File system
Network	TCP/IP Protocol version 4 only TCPv6 addressing is not supported by OpenLAB CDS. See <i>OpenLAB CDS Requirements</i> guide for detailed specifications
Privileges	Local Administrator permissions required for software installation and configuration
Printing	Check that a valid printer driver is installed on the system and a test page prints successfully
IP Address	Static or DHCP Reservation
Virtualization	Not currently supported
Citrix	Not currently supported
Terminal Services	Not currently supported
Antivirus Software	Highly recommended. The application was tested with Symantec Endpoint Protection , Microsoft Security Essentials, Trend Micro and McAfee
Adobe Reader	Adobe Reader XI or above
Adobe Flash Player	Adobe Flash Player 17 or above

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**Computer Hardware Specifications**

The OpenLAB CDS Workstation is available either with storage in the local file system (OpenLAB CDS Workstation Software) or in a built-in Content Management database (OpenLAB CDS Workstation Plus Software). A workstation with Content Management (OpenLAB CDS Workstation Plus) requires higher performing hardware.

Minimum hardware configuration for a workstation

Specification Description	Workstation	Workstation with Content Management
Processor type & speed	Intel® Xeon E3 (3.2 GHz, 8 MB SmartCache, 4 Core, Hyper Threading) Intel® vPro™ Technology, Intel® HD Graphics, or equivalent	Intel® Xeon® E5-1620 v3 (3.5 GHz, 10 MB SmartCache, 4 Core), or equivalent
Memory	8 GB	16 GB
Hard disk drive	1 x 500 GB SATA 7200 RPM See Table 2 on OpenLAB CDS Requirements Guide	2 x 500 GB or 1 TB SATA 7200 RPM <sup>1</sup> See Table 2 on OpenLAB CDS Requirements Guide
Monitor/Graphics Adapter	1600 x 1200	1600 x 1200
RS-232 port	1 serial port	1 serial port
USB port	1	1
LAN card	Integrated Intel® I217LM PCIe GbE Controller	Integrated Intel® I217LM PCIe GbE Controller Intel® Ethernet I210-T1 PCIe as 2nd NIC <sup>2</sup>

<sup>1</sup> If the computer has a disc array controller we recommend 2 x 1 TB in RAID1.

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

Recommended bundle PC for a workstation with Content Management: HP Z440 Workstation or equivalent.

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### **Number of Instruments**

You can configure any number of instruments that sums up to 4 instrument points per OpenLAB CDS Workstation.

Instrument points are an indicator for the data stream that needs to be managed, and thus also for the required hardware and software. Instruments count as follows:

- GC + 2D 1 instrument point
- LC + 2D 1 instrument point
- LC + 3D 2 instrument points
- GC + MS 2 instrument points
- LC + MS 2 instrument points

### **Database**

Workstation Plus uses a PostgreSQL 9.3 database for both Shared Services and Content Management. It is installed and configured automatically during installation.

Agilent does not support the use of a PostgreSQL version other than the one installed by the OpenLAB software.

### **Networking Specifications**

When using LAN communications to connect workstations to an instrument, use one of these methods:

- Connect via an isolated switch using standard CAT-5 network cabling
- LAN communication hardware should be 100/1000 mbps (or higher) speed capable.
- NIC teaming<sup>1</sup>: LAN cards should not be teamed on workstations, instrument controllers, or clients.
- LAN communication must be on the same subnet as instruments, and preferably on the same segment.

Note: See the separate driver installation guides for further information regarding vendor specific instrument connections. GPIB or RS232 might be required.

<sup>1</sup> Network Interface Card (NIC) teaming is also known as Load Balancing and Failover (LBFO)

### **Analytical Instruments**

#### **Firmware Requirements**

Additional firmware upgrades may be needed. Please review the respective Driver Release Notes in the **OpenLAB 2.1 Installer > Documentation**

**Agilent OpenLAB CDS 2.1 Workstation  
Site Prep Checklist****Hardware Specifications**

Specification Description	Support Statement
LAN Interface	G1369 A/B/C LAN Interface Card – Min FW A.01.10 / A.01.01 / B.06.40, respectively 35900E, Agilent 1100 or 68xx only: J4100A HP Jet Direct Card – min. FW
Local Area Network (LAN)	Instruments and Workstations should be installed in an isolated network or on a separate vLAN. A second network interface can be used to isolate the
IP Address Assignment	Static or DHCP Reservation BootP is supported on Workstations connected to the Instrument by a Crossover Cable

**Agilent Customer Web Links**

- For additional information about our solutions, please visit our web site at [www.agilent.com](http://www.agilent.com)
- How to get information on your product: Literature Library - [www.agilent.com/chem/library](http://www.agilent.com/chem/library)
- Need to know more? - [www.agilent.com/chem/education](http://www.agilent.com/chem/education)
- Need technical support, FAQs? - [www.agilent.com/chem/techsupp](http://www.agilent.com/chem/techsupp)
- Need supplies? - [www.agilent.com/chem/supplies](http://www.agilent.com/chem/supplies)
- Software Status bulletins, patches, drivers, software utilities - [www.agilent.com/en-us/products/software-informatics/openlab-software-suite/chromatography-data-systems-/openlab-cds](http://www.agilent.com/en-us/products/software-informatics/openlab-software-suite/chromatography-data-systems-/openlab-cds)
- OpenLAB CDS Software Updates - [agilent.subscribenet.com](http://agilent.subscribenet.com)

**Other important web links**

- Microsoft Hardware Compatibility Lists <http://www.microsoft.com/whdc/hcl/default.msp>
- Links to specific O/S fixes, updates needed <http://support.microsoft.com/>