Thank you for purchasing an Agilent product. To get you started and to assure a successful and timely installation of your Agilent **software**, please refer to this specification or set of requirements.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an **information guide and checklist** prepared for you that outlines the supplies, consumables, space and utility requirements for your equipment.

Customer Responsibilities

Make sure your site meets the following prior specifications before the installation date. For details, see specific sections within this checklist, including:
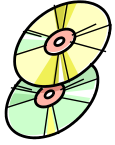
❑ The computing environment and the necessary space is made available

❑ The number & location of electrical outlets for your computer systems and peripherals are planned

❑ That your site meets the software, hardware and networking specifications below

❑ Locate your sales order information, software authorization codes and/or software licenses/certificates

❑ The necessary software media, disks etc. are available including upgrade/update disks

❑ That a suitable backup solution is identified for your software

❑ Availability of a system/network administrator as needed to connect to your intranet

❑ Please consult Other Requirements section below for other product-specific information.

❑ Complete Final Check: Software Site Preparation Tool. Please go to Setup\Tools\ENU\SitePrep on OpenLab CDS v2.4 Install media, right click on *SitePrepStartExe.exe* and select **OpenLab CDS** to complete the final check.

  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

1. If you have questions or problems in providing anything described as a Customer Responsibility 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.

2. 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.

3. 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.

Software Specifications for Clients

Specification Description	Supported
Operating system type(s), version	• Windows 7 SP1, Enterprise or Professional, 64 bit • Windows 10, Enterprise or Professional, 64 bit • Windows Server 2012 R2 Standard or Datacenter • Windows Server 2016 Standard or Datacenter
O/S .NET & other add-ons	• .NET 3.5 SP1 (*must be enabled on Windows 10*) • .NET 4.7.2 or above (*installed by OpenLab CDS v2.4 Installer*)
Localized OpenLab CDS can run on localized OS	• English • Western European Language (*CDS will always appear in English*) • Chinese (*Non-localized instrument drivers are supported and will always appear in English*) • Japanese (*Non-localized instrument drivers are supported and will always appear in English*) • Brazilian Portuguese (*Non-localized instrument drivers are supported and will always appear in English*)
Default font	• Chinese: Microsoft YaHei • Japanese: Meiryo UI • Brazilian Portuguese: Calibri
Account settings/privileges	Domain user with local administrator privilege required for installation and configuration
Web Browser	Internet Explorer 11, Google Chrome 40 or higher, MS Edge. For best user experience in OpenLab Help and Learning, select Internet Explorer or Google Chrome as default Web browser.
Antivirus software	Highly recommended. The application was tested with Symantec Endpoint Protection, Microsoft Security Essentials, Trend Micro and McAfee.
Adobe Reader	Adobe Reader DC

Computer Hardware Specifications for Clients

Recommended hardware specifications:

Specification Description	
Processor type & speed	Intel® i5, i7, or Xeon E3 or equivalent 3.0 GHz or greater 4 Core
Physical Memory (RAM)	8 GB
Hard Disk	500 GB SATA 7200 RPM1 (see *note 1*) or equivalent SSD
Graphic Resolution	1600 x 900 minimum 1920 x 1080 recommended
USB Port	1 USB port required for installation
LAN Card	100 MB/1 GB LAN

Note 1: If the computer has a disc array controller we recommend 2 x 1 TB in RAID-1.
Note 2: A second LAN interface is recommended to isolate the instrument's data traffic.

Networking Specifications

Special Notes

Domain Requirements: Domains support the flow of information and user access rights across machines in the network. This means that all machines and instruments within the networked OpenLab CDS system must reside within the same domain or have the appropriate cross domain trusts to allow name based communications between all components in the system. In the case of a Client installation, the Client must always be able to communicate with domain components to function as expected.

The domain name server (DNS) must be able to resolve the IPv4 address of all instrument controllers and instruments. Any unresolved instrument controller or instrument will disrupt the functionality of OpenLab resulting in errors or delays. IPv6 is not supported and must be deactivated.

Specification Description	Supported
Network type, bandwidth, speed, protocol etc.	Internet Protocol Version 4 (TCP/IPv4) only *Internet Protocol Version 6 (TCP/IPv6) is not supported*
IP Address	Static or DHCP Reservation

For more detailed information, please refer to *2. Network Requirements* on page 26 of **CDS_ClientServer_Requirements.pdf**.

Virtualization

OpenLab CDS Client has been tested with the following virtualization software. The resources requirements are equal to those of the physical machines. Windows Server 2012 R2 requires domain environment.

- Citrix XenApp 7.8 or 7.15 with Windows 2012 Server

  Note: Be aware of a potential conflict when using an All-in-one Citrix XenApp environment: Both Citrix and OpenLab CDS use port 27000 for the License Manager Service.

- VMware vSphere 5.x
- Remote Desktop Services with Windows 2012 Server R2
- Hyper-V with Windows 2012 Server R2

Other Requirements

1. Links to specific O/S fixes, updates needed
   http://support.microsoft.com/

2. Please refer to the **CDS_ClientServer_Requirements.pdf** on the installation media for further information on supported hardware and software.

Important Customer Web Links

- ❑ For additional information about our solutions, please visit our web site at https://www.agilent.com
- ❑ Need to get information on your product? https://www.agilent.com/en-us/products/software-informatics/chromatography-data-systems/OpenLab-cds
- ❑ Need to know more? Customer Education – https://www.agilent.com/crosslab/university/
- ❑ Need technical support, FAQs? – https://www.agilent.com/en/products/software-informatics/chromatography-data-systems/OpenLab-cds#support
- ❑ Need supplies? – https://www.agilent.com/en-us/products/lab-supplies/chromatography-spectroscopy
- ❑ OpenLab CDS Software Updates – https://agilent.subscribenet.com (for any questions related to your account, please email to subscribenet_support@agilent.com)
- ❑ OpenLab CDS Software Status Bulletin (SSB) – https://www.agilent.com/cs/library/support/Patches/SSBs/M84xx.html