Thank you for purchasing an Agilent instrument. 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 for your site.

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 visit the following Agilent website to download the Software Installation Site Preparation Tool.
  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 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.
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.
ChemStation Workstation

Software Specifications for workstations

- Operating System (OS):
  - Windows XP Professional SP3 (32-bit only) [not supported for OpenLAB Data Analysis]
  - Windows Vista Business SP2 (32-bit only) [not supported for OpenLAB Data Analysis]
  - Windows 7 SP1 (32-bit or 64-bit)
- The following localized versions of Windows operating systems may be used:
  - English
  - Western European language versions (CDS software will always appear in English). Which language: __________________________. [not supported for OpenLAB Data Analysis].
  - 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)
- Domain connectivity is optional for workstations
- OS .NET & other Add-ins:
  - .NET 3.5 SP1 (Installed by master installer launch if needed)
  - Windows Installer 4.5 (Installed automatically by master installer if needed)
- Check if one of the following products is on the purchase order.
  - M8301AA with M8400AA drivers
  - M8308AA OpenLAB CDS GC ChemStation Upgrade
  - M8380AA or M8381AA PC Bundles
- If one of the above products is on the purchase order, confirm that Windows 7 SP1 is the operating system
- If both of the above boxes are checked, install .NET 4.0 (Required for OpenLAB Data Analysis only)
- Drives: NTFS Files system
- Network: TCP/IP Protocol version 4 only; TCPv6 addressing is not supported by OpenLAB CDS, Client for Microsoft Networks, File and Printer Sharing for Microsoft Networks
  ***See OpenLAB CDS Network Requirements 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, DHCP or DHCP Reservation
- Virtualization: Not currently supported
- Citrix: Not currently supported
OpenLAB CDS Standalone Workstations (A.01.04)
ChemStation or EZChrom Edition and Instruments
Site Preparation Checklist

- Terminal Services: Not currently supported
- Antivirus Software is strongly recommended
- Adobe reader is strongly recommended

Computer Hardware Specifications for workstations

<table>
<thead>
<tr>
<th>Specification Description</th>
<th>Minimum</th>
<th>Recommended (if applicable)</th>
<th>Comments (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor type &amp; speed</td>
<td>2 GHz</td>
<td>3 GHz Dual Core</td>
<td>-</td>
</tr>
<tr>
<td>Memory</td>
<td>2 GB (2048 MB)</td>
<td>4 GB (4096 MB)</td>
<td>-</td>
</tr>
<tr>
<td>Internal Storage/devices/media</td>
<td>DVD-ROM</td>
<td>DVD-ROM</td>
<td>-</td>
</tr>
<tr>
<td>External Storage/devices/media</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Video devices</td>
<td>SVGA or better - 1024x768 min. res.</td>
<td>SVGA or better - 1024x768 min. res.</td>
<td>-</td>
</tr>
<tr>
<td>Audio devices</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Printing devices</td>
<td>Local/Network Printer</td>
<td>Local/Network Printer</td>
<td>-</td>
</tr>
<tr>
<td>Pointing devices</td>
<td>MS Windows compatible mouse</td>
<td>MS Windows compatible mouse</td>
<td>-</td>
</tr>
<tr>
<td>Instrument Control</td>
<td>-</td>
<td>4 Instruments max** / workstation</td>
<td>** 3D detector systems count as 2 instruments. LC/MS, CE/MS: 1 instrument max / workstation</td>
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Networking Specifications

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<tr>
<td>Network Adapter</td>
<td>100/1000 LAN Adapter</td>
<td>100/1000 LAN Adapter</td>
<td>-</td>
</tr>
<tr>
<td>LAN Instrument Communication</td>
<td>must be on the same subnet as instruments</td>
<td>must be on the same subnet as instruments</td>
<td>-</td>
</tr>
<tr>
<td>other instrument communication</td>
<td>GPIB (only)</td>
<td>GPIB (only)</td>
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EZChrom Workstation

Software Specifications for workstations

- Operating System (OS):
  - Windows XP Professional SP3 (32-bit only) [not supported for OpenLAB Data Analysis]
  - Windows Vista Business SP2 (32-bit only) [not supported for OpenLAB Data Analysis]
  - Windows 7 SP1 (32-bit or 64-bit)

- The following localized versions of Windows operating systems may be used:
  - English
  - Western European language versions (CDS software will always appear in English). Which language: ____________________________ [not supported for OpenLAB Data Analysis].
  - 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)

- Domain connectivity is optional for workstations

- OS .NET & other Add-ins:
  - .NET 3.5 SP1 (Installed by master installer launch if needed)
  - Windows Installer 4.5 (Installed automatically by master installer if needed)
  - Check if one of the following products is on the purchase order.
    - M8206AA OpenLAB CDS EZChrom Upgrade with M8400AA drivers
    - M8280AA or M8281AA PC Bundles
  - If one of the above products is on the purchase order, confirm that Windows 7 SP1 is the operating system
  - If both of the above boxes are checked, install .NET 4.0 (Required for OpenLAB Data Analysis only)

- Drives: NTFS Files system

- Network: TCP/IP Protocol version 4 only; TCPv6 addressing is not supported by OpenLAB CDS, Client for Microsoft Networks, File and Printer Sharing for Microsoft Networks
  - See OpenLAB CDS Network Requirements 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, DHCP or DHCP Reservation

- Virtualization: Not currently supported

- Citrix: Not currently supported

- Terminal Services: Not currently supported
Antivirus Software is strongly recommended
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<td>-</td>
</tr>
<tr>
<td>Hard disk drive</td>
<td>80 GB Hard Drive (15 GB free)</td>
<td>80 GB Hard Drive (15 GB free)</td>
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<td>Internal Storage/devices/media</td>
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<td>other instrument communication</td>
<td>SCSI, COM, Serial, GPIB (must be installed next to instrument)</td>
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Analytical Instruments

Firmware Requirements
Review the document "CDS Supported Instrument and Firmware". Additional firmware upgrades may be needed.

Hardware Specifications

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<td>LAN Interface: G1369A/B/C LAN Interface Card – Min FW C.03.00/B.01.01/ B.06.40 005, respectively</td>
<td>-Supported for both EZChrom and ChemStation  J4100A HP Jet Direct Card – FW K.08.32 (35900E, Agilent 1100 or 68xx only!)</td>
</tr>
<tr>
<td>Local Area Network (LAN): Instruments/Workstations/AIC’s should be installed in: Isolated or V-LAN Instruments must be put on the same subnet as CDS Workstations</td>
<td></td>
</tr>
<tr>
<td>GPIB, HPIB: Supported with OpenLAB CDS-ChemStation only! I/O Libraries Suite Revision 16.1 must be installed</td>
<td></td>
</tr>
<tr>
<td>IP Address Assignment: Static or DHCP Reservation BootP is supported on Standalone Workstations connected to the Instrument by a Crossover Cable</td>
<td></td>
</tr>
<tr>
<td>Instrument Firmware: Instruments must meet the minimum Firmware requirements as specified in the Minimum Firmware Requirements document.</td>
<td></td>
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</table>
Other Requirements

1. Important web links
   Microsoft Hardware Compatibility Lists
   http://www.microsoft.com/whdc/hcl/default.mspx

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

2. 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 hosting central licensing services:
   Flex-Net Publisher v. 11.X
   This software is installed with the installation of a shared services server and a single server may be used to host licenses for multiple systems in the same network domain.

Important Customer Web Links

- For additional information about our solutions, please visit our web site at http://www.chem.agilent.com
- OpenLAB CDS Software Updates - https://agilent.subscribenet.com/